Villager

TransPorter

Electric Vehicles

2003 Owner's Manual

Club Car™

Performance Utility Vehicles

NOTICE

The Club Car Limited Warranties for 2003 Transportation and Utility Vehicles, 2003 PowerDrive 8-Volt Batteries, 2003 PowerDrive Battery Chargers, and 2003 Onboard Computers and Solid-State Speed Controllers, appear on the last pages of this manual. No other warranties, express or implied, are contained herein. Your authorized representative checked the vehicle before it was delivered to you and will provide you a copy of the completed vehicle warranty registration form.

Club Car is not liable for errors in this manual or for incidental or consequential damages that result from the use of the material in this manual.

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The information contained in this document is subject to change without notice.

Club Car reserves the right to make design changes to vehicles without obligation to make these changes on units previously sold.

These vehicles do not conform to Federal Motor Vehicle Safety Standards for automobiles or to FMVSS 500 for low-speed vehicles, and are not equipped for operation on public streets, roads, or highways.

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This manual effective July 22, 2002.

FOREWORD

Thank you for choosing Club Car. You have chosen the finest utility vehicle on the market; the vehicle most widely recognized as the industry leader in vehicle efficiency and long-lasting value. Please protect your investment and ensure that your Club Car vehicle(s) provides years of reliable, superior performance by reading and following the maintenance instructions in this manual.

Your comfort and safety are important to us, so we urge you to read and follow the step-by-step operating instructions and safety procedures in this manual. These instructions must be followed in order to avoid the risk of severe personal injury. If you rent or loan your vehicle to others, we recommend that you ask them to read this manual before they operate the vehicle.

Club Car products are backed by a customer support system designed to offer you fast, courteous service. In the event that your Club Car vehicle needs repairs or service, we recommend that your local authorized Club Car representative perform them. For the name and address of the Club Car representative nearest you, logon to our web site at www.clubcar.com or call 1-800-ClubCar (258-2227). If you would prefer to write to us, direct your letter to: Club Car, Attention: Marketing Services, P.O. Box 204658, Augusta, Georgia 30917-4658 USA. Your local authorized Club Car representative can also provide technical advice, parts, and service manuals.

We hope you will consider this owner's manual a permanent part of your Club Car vehicle. If you sell the vehicle, please include the manual so that the next owner will have the important operating, safety, and maintenance information it contains.

Practice Safety

Safety signs like you see above may at first seem shocking, but their impact is mild compared with the reality of severe personal injury.

Your safety and satisfaction are of the utmost importance to Club Car. That is why before operating the vehicle, we urge you to review the information in this manual. Understand and become familiar with the DANGER, WARNING and CAUTION statements and procedures it contains, along with the safety decals that are affixed to your vehicle.

Take time to understand the language of safety. It is a language that can save your life.

PROPOSITION 65 – STATE OF CALIFORNIA

⚠ WARNING

This product contains or emits chemicals or substances that have been determined by the state of California to cause cancer and birth defects or other reproductive harm.

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SAFETY DETAILS

⚠ WARNING

- **This owner's manual should be read completely before attempting to drive or service the vehicle. Failure to follow the instructions in this manual could result in property damage, severe personal injury, or death.**

It is important to note that some vital statements throughout this manual and on the decals affixed to the vehicle are preceded by the words DANGER, WARNING, or CAUTION. For your protection, we recommend that you take special notice of these safety precautions. Safety precautions are essential and must be followed.

If any of the operation or safety decals on the vehicle become damaged, have been removed, or cannot be easily read, they should be replaced immediately to avoid possible property damage, personal injury, or death. Contact your Club Car distributor/dealer.

⚠ DANGER

- **A DANGER indicates an immediate hazard that will result in severe personal injury or death.**

⚠ WARNING

- **A WARNING indicates an immediate hazard that could result in severe personal injury or death.**

⚠ CAUTION

- **A CAUTION indicates a hazard or unsafe practice that could result in minor personal injury or product or property damage.**

GENERAL WARNINGS

The following safety statements must be heeded whenever the vehicle is being operated, repaired, or serviced. Vehicle feature identification information is also included beginning on page 8. Other specific safety statements appear throughout this manual and on the vehicle.

⚠ DANGER

- **Battery – Explosive gases! Do not smoke. Keep sparks and flames away from the vehicle and service area. Ventilate when charging or operating vehicle in an enclosed area. Wear a full face shield and rubber gloves when working on or near batteries.**
- **A Club Car vehicle will not provide protection from lightning, flying objects, or other storm-related hazards. If caught in a storm while driving a Club Car vehicle, exit the vehicle and seek shelter in accordance with applicable safety guidelines for your location.**

⚠ WARNING

- **Follow the procedures exactly as stated in this manual, and heed all DANGER, WARNING, and CAUTION statements in this manual as well as those on the vehicle and battery charger.**
- **Do not leave children unattended on vehicle.**
- **Prior to leaving the vehicle unattended or servicing the vehicle, turn the key switch OFF, remove the key, and place the Forward/Reverse handle or switch in the NEUTRAL position. Chock the wheels when servicing the vehicle.**
- **Improper use of the vehicle or failure to properly maintain it could result in decreased vehicle performance, severe personal injury, or death.**

- **Any modification or change to the vehicle that affects the stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, could result in severe personal injury or death.**
- **Check the vehicle for proper location of all vehicle safety and operation decals and make sure they are in place and are easy to read.**
- **For vehicles with cargo beds, remove all cargo before raising the bed or servicing the vehicle. If the vehicle is equipped with a prop rod, ensure that it is securely engaged while bed is raised. Do not close bed until all persons are clear of cargo bed area. Keep hands clear of all crush areas. Do not drop cargo bed; lower gently and keep entire body clear. Failure to heed this warning could result in severe personal injury or death.**
- **Only trained technicians should service or repair the vehicle or battery charger. Anyone doing even simple repairs or service should have knowledge and experience in electrical and mechanical repair. The appropriate instructions must be used when performing maintenance, service, or accessory installation.**
- **IQ System vehicles:**
  Place Tow/Run switch in the TOW position before disconnecting or connecting the batteries. Failure to heed this warning could result in a battery explosion or severe personal injury.
- **All electric vehicles:**
  To avoid unintentionally starting the vehicle, disconnect the batteries as shown (Figure 1).
- **IQ System vehicles:**
  After disconnecting the batteries, wait 90 seconds for the controller capacitors to discharge.
- **PowerDrive System 48 vehicles:**
  After disconnecting the batteries, discharge the controller capacitors as follows:
  - **Turn key switch to ON and place the Forward/Reverse handle in REVERSE.**
  - **Slowly depress the accelerator pedal and keep it depressed until the reverse warning buzzer can no longer be heard. When the buzzer stops sounding, the controller capacitors are discharged.**
- **Wear safety glasses or approved eye protection when servicing the vehicle or battery charger. Wear a full face shield and rubber gloves when working on or near batteries.**
- **Do not wear loose clothing or jewelry such as rings, watches, chains, etc., when servicing the vehicle or battery charger.**
- **Use insulated tools when working near batteries or electrical connections. Use extreme caution to avoid shorting of components or wiring.**

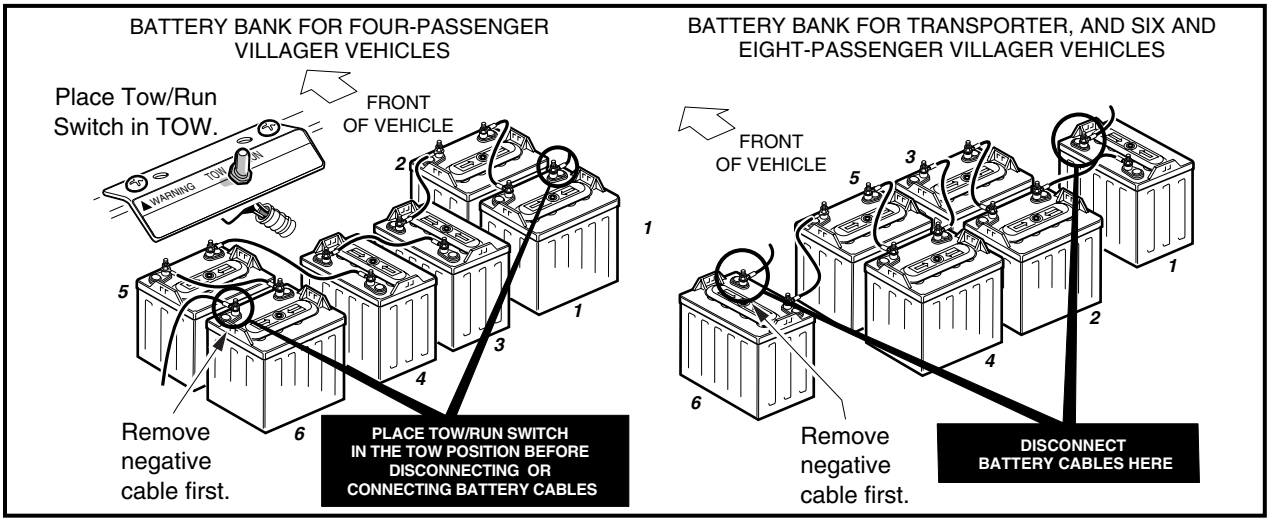
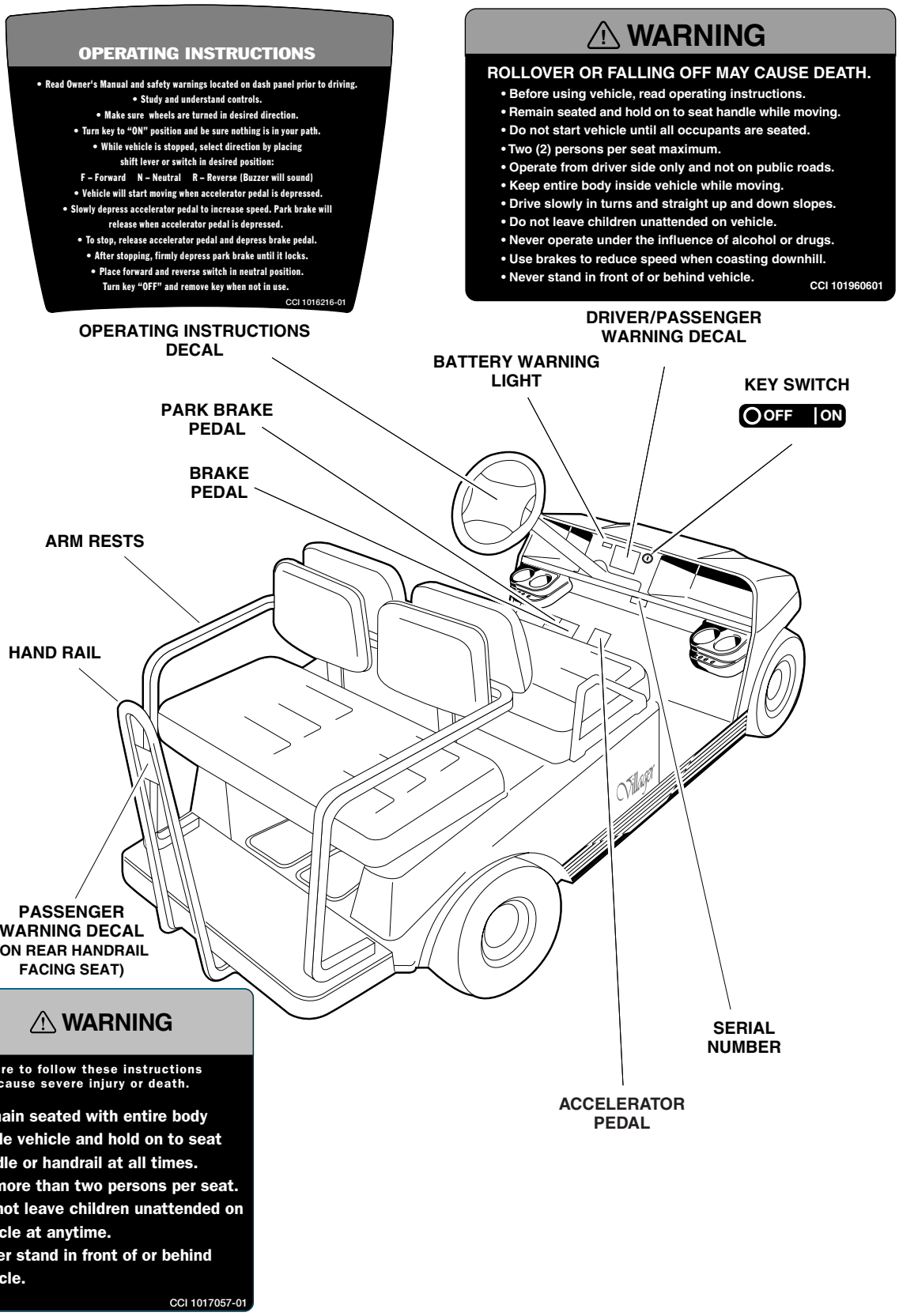


Figure 1 Battery Configurations

FOUR-PASSENGER VILLAGER VEHICLE


OPERATING INSTRUCTIONS
• Read Owner's Manual and safety warnings located on dash panel prior to driving.
• Study and understand controls.
• Make sure wheels are turned in desired direction.
• Turn key to "ON" position and be sure nothing is in your path.
• While vehicle is stopped, select direction by placing shift lever or switch in desired position:
F – Forward N – Neutral R – Reverse (Buzzer will sound)
• Vehicle will start moving when accelerator pedal is depressed.
• Slowly depress accelerator pedal to increase speed. Park brake will release when accelerator pedal is depressed.
• To stop, release accelerator pedal and depress brake pedal.
• After stopping, firmly depress park brake until it locks.
• Place forward and reverse switch in neutral position.
Turn key "OFF" and remove key when not in use.
CCI 1016216-01
OPERATING INSTRUCTIONS DECAL
⚠ WARNING
ROLLOVER OR FALLING OFF MAY CAUSE DEATH.
• Before using vehicle, read operating instructions.
• Remain seated and hold on to seat handle while moving.
• Do not start vehicle until all occupants are seated.
• Two (2) persons per seat maximum.
• Operate from driver side only and not on public roads.
• Keep entire body inside vehicle while moving.
• Drive slowly in turns and straight up and down slopes.
• Do not leave children unattended on vehicle.
• Never operate under the influence of alcohol or drugs.
• Use brakes to reduce speed when coasting downhill.
• Never stand in front of or behind vehicle.
CCI 101960601
DRIVER/PASSENGER WARNING DECAL
BATTERY WARNING LIGHT
KEY SWITCH
OFF ON
PARK BRAKE PEDAL
BRAKE PEDAL
ARM RESTS
HAND RAIL
PASSENGER WARNING DECAL (ON REAR HANDRAIL FACING SEAT)
⚠ WARNING
Failure to follow these instructions can cause severe injury or death.
• Remain seated with entire body inside vehicle and hold on to seat handle or handrail at all times.
• No more than two persons per seat.
• Do not leave children unattended on vehicle at anytime.
• Never stand in front of or behind vehicle.
CCI 1017057-01
SERIAL NUMBER
ACCELERATOR PEDAL

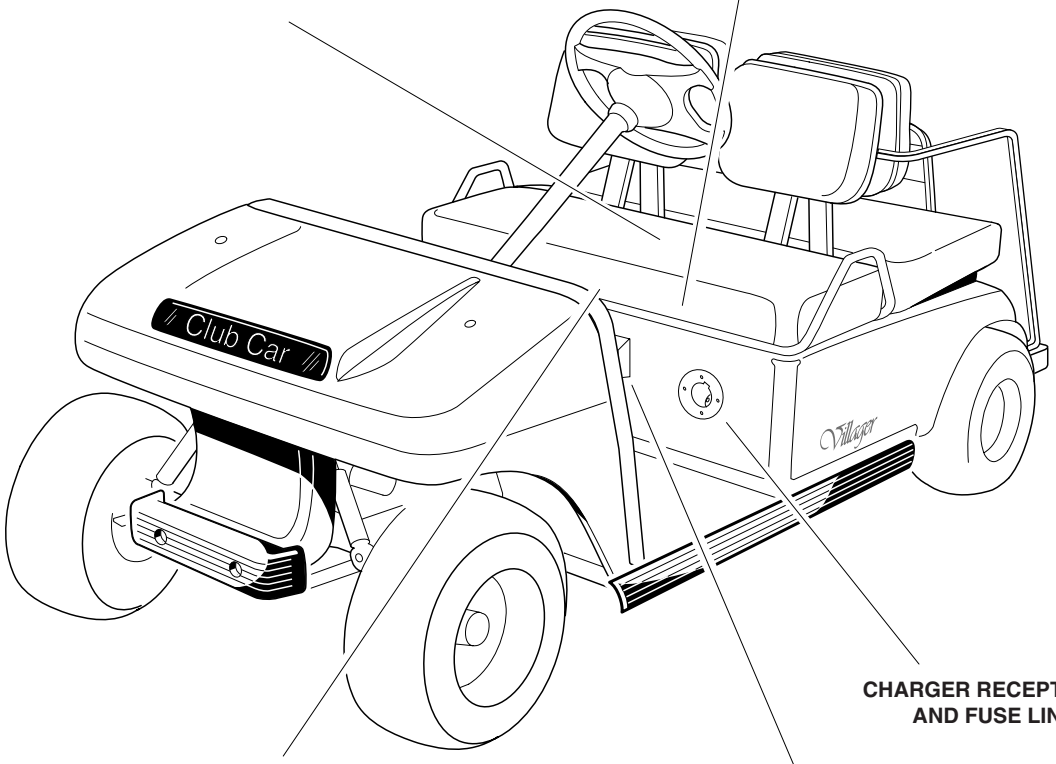
FOUR-PASSENGER VILLAGER VEHICLE

⚠ DANGER / POISON
SHIELD EYES
EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY
NO
• SPARKS
• FLAMES
• SMOKING
SULFURIC ACID
CAN CAUSE BLINDNESS OR SEVERE BURNS
FLUSH EYES IMMEDIATELY WITH WATER
GET MEDICAL HELP FAST
KEEP OUT OF THE REACH OF CHILDREN – DO NOT TIP – KEEP VENT CAPS TIGHT AND LEVEL

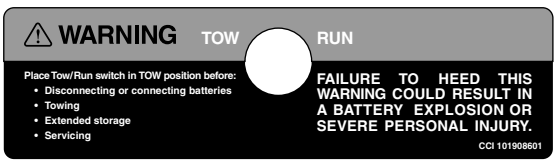
BATTERY DANGER
(MOLDED ON BATTERY CAPS)

NOTICE
Do not operate vehicle without this cover properly installed.
Do not direct water stream in this area; will cause damage to components.
See vehicle maintenance and service manual before servicing.
CCI 101931501

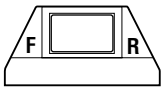
ELECTRICAL COMPONENT DECAL
(ON SPEED CONTROLLER COVER)



CHARGER RECEPTACLE AND FUSE LINK

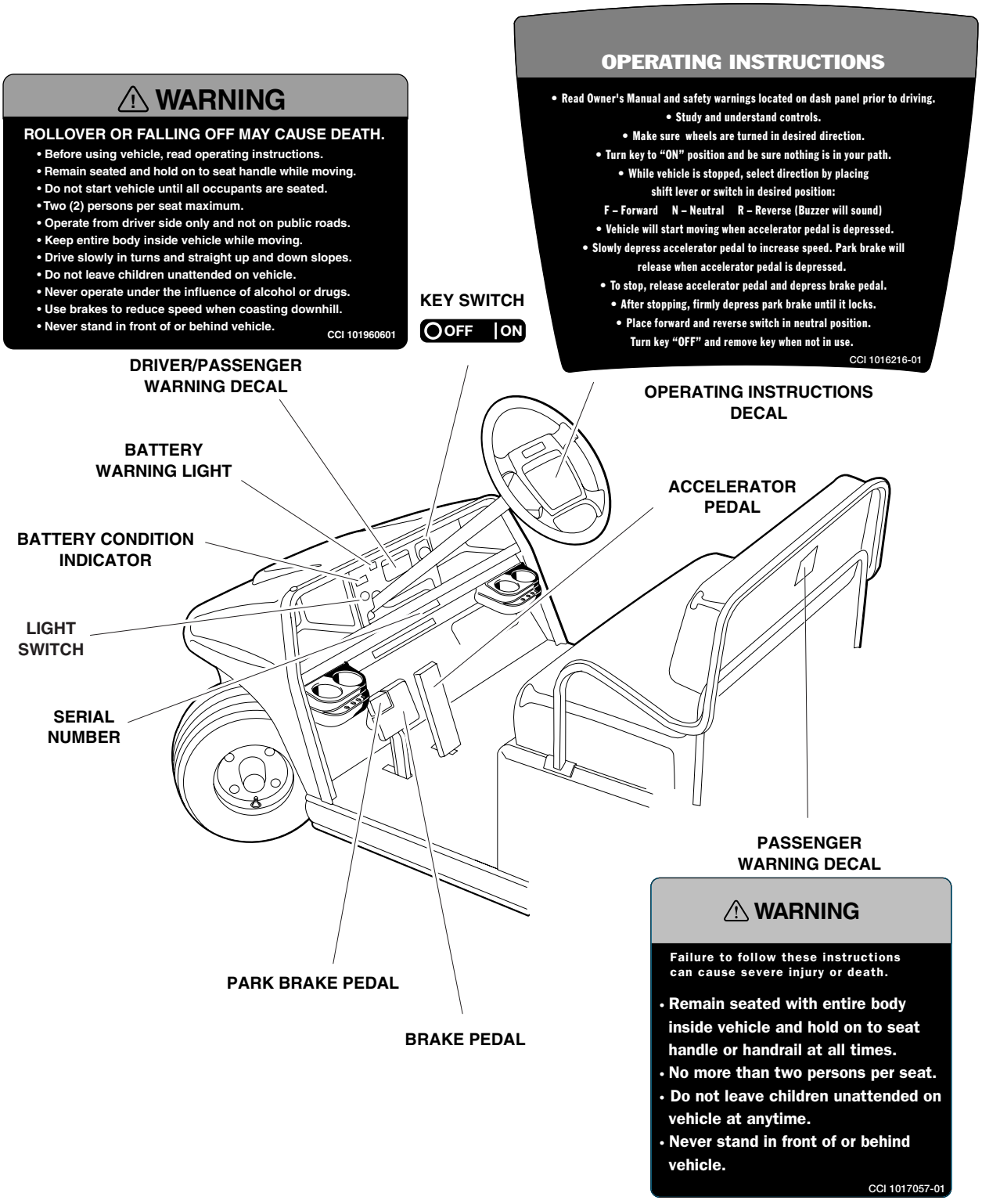

⚠ WARNING
TOW
RUN
Place Tow/Run switch in TOW position before:
• Disconnecting or connecting batteries
• Towing
• Extended storage
• Servicing
FAILURE TO HEED THIS WARNING COULD RESULT IN A BATTERY EXPLOSION OR SEVERE PERSONAL INJURY.
CCI 101908601

TOW SWITCH WARNING DECAL
(ON TOW SWITCH BRACKET UNDER SEAT)

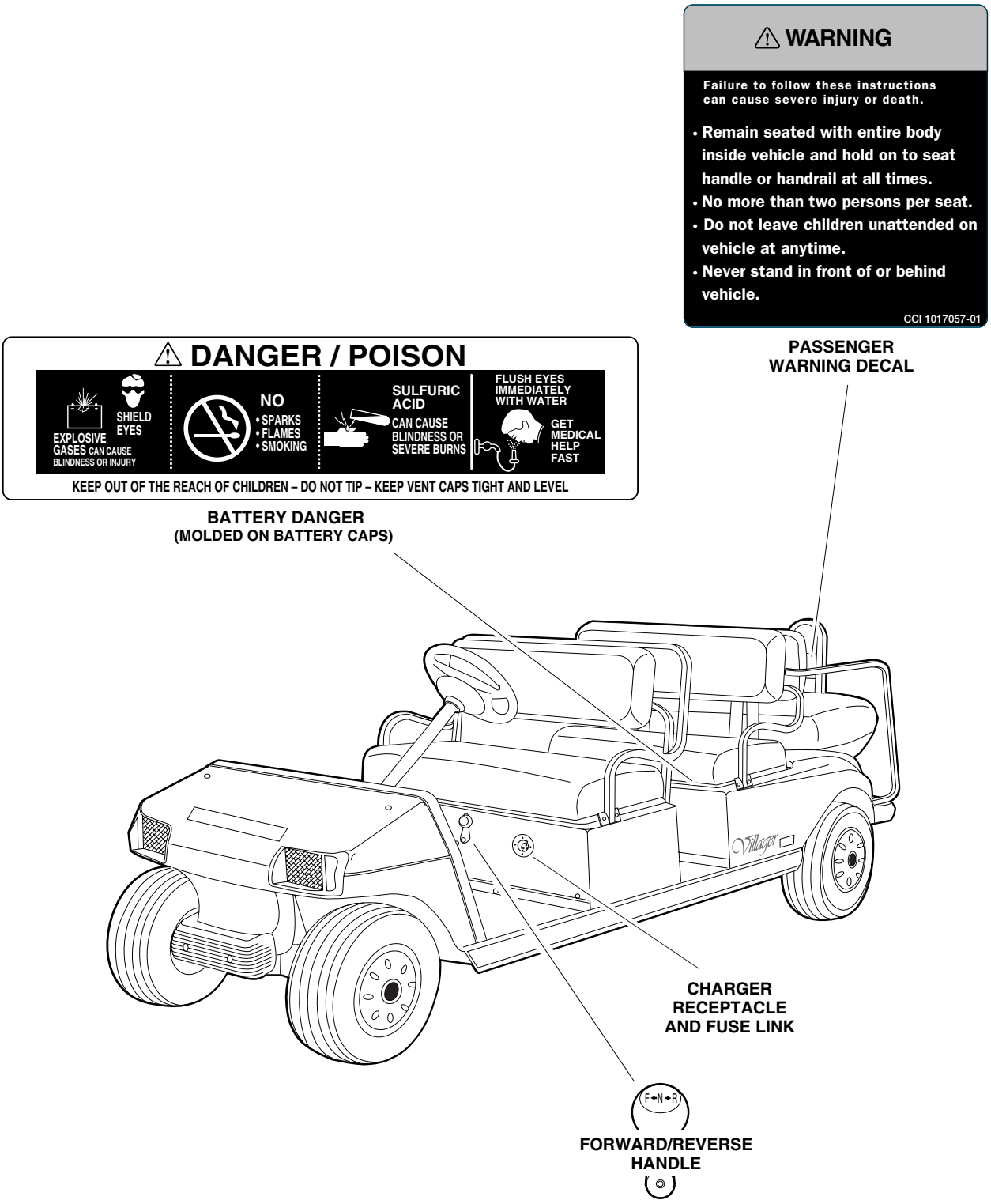


FORWARD/REVERSE SWITCH

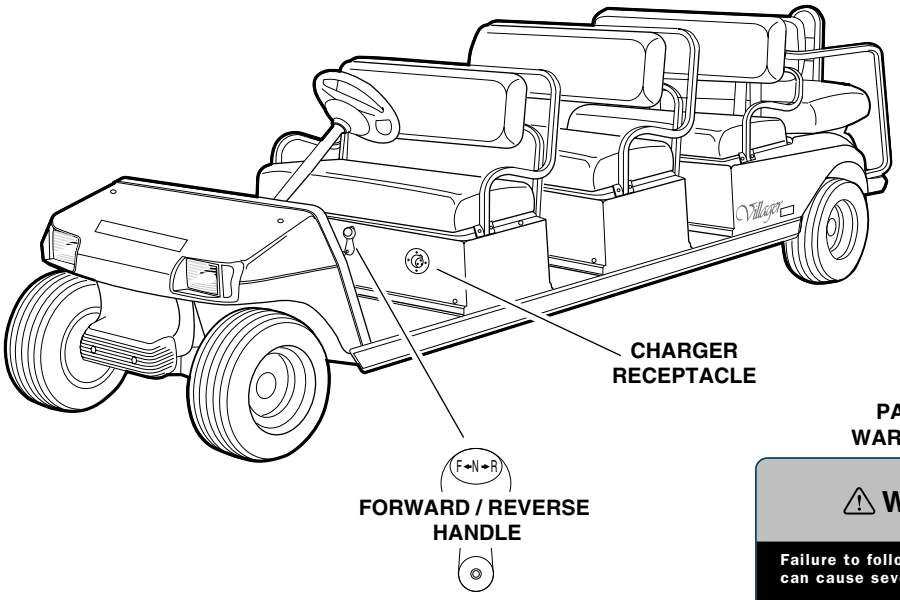
SIX AND EIGHT-PASSENGER VILLAGER (FRONT)


⚠ WARNING
ROLLOVER OR FALLING OFF MAY CAUSE DEATH.
• Before using vehicle, read operating instructions.
• Remain seated and hold on to seat handle while moving.
• Do not start vehicle until all occupants are seated.
• Two (2) persons per seat maximum.
• Operate from driver side only and not on public roads.
• Keep entire body inside vehicle while moving.
• Drive slowly in turns and straight up and down slopes.
• Do not leave children unattended on vehicle.
• Never operate under the influence of alcohol or drugs.
• Use brakes to reduce speed when coasting downhill.
• Never stand in front of or behind vehicle.
CCI 101960601
KEY SWITCH
OFF ON
OPERATING INSTRUCTIONS
• Read Owner's Manual and safety warnings located on dash panel prior to driving.
• Study and understand controls.
• Make sure wheels are turned in desired direction.
• Turn key to "ON" position and be sure nothing is in your path.
• While vehicle is stopped, select direction by placing shift lever or switch in desired position:
F – Forward N – Neutral R – Reverse (Buzzer will sound)
• Vehicle will start moving when accelerator pedal is depressed.
• Slowly depress accelerator pedal to increase speed. Park brake will release when accelerator pedal is depressed.
• To stop, release accelerator pedal and depress brake pedal.
• After stopping, firmly depress park brake until it locks.
• Place forward and reverse switch in neutral position.
Turn key "OFF" and remove key when not in use.
CCI 1016216-01
DRIVER/PASSENGER WARNING DECAL
OPERATING INSTRUCTIONS DECAL
BATTERY WARNING LIGHT
ACCELERATOR PEDAL
BATTERY CONDITION INDICATOR
LIGHT SWITCH
SERIAL NUMBER
PASSENGER WARNING DECAL
PARK BRAKE PEDAL
BRAKE PEDAL
⚠ WARNING
Failure to follow these instructions can cause severe injury or death.
• Remain seated with entire body inside vehicle and hold on to seat handle or handrail at all times.
• No more than two persons per seat.
• Do not leave children unattended on vehicle at anytime.
• Never stand in front of or behind vehicle.
CCI 1017057-01

SIX-PASSENGER VILLAGER VEHICLE (REAR)


⚠ WARNING
Failure to follow these instructions can cause severe injury or death.
• Remain seated with entire body inside vehicle and hold on to seat handle or handrail at all times.
• No more than two persons per seat.
• Do not leave children unattended on vehicle at anytime.
• Never stand in front of or behind vehicle.
CCI 1017057-01
PASSENGER WARNING DECAL
⚠ DANGER / POISON
SHIELD EYES
EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY
NO
• SPARKS
• FLAMES
• SMOKING
SULFURIC ACID
CAN CAUSE BLINDNESS OR SEVERE BURNS
FLUSH EYES IMMEDIATELY WITH WATER
GET MEDICAL HELP FAST
KEEP OUT OF THE REACH OF CHILDREN – DO NOT TIP – KEEP VENT CAPS TIGHT AND LEVEL
BATTERY DANGER
(MOLDED ON BATTERY CAPS)
CHARGER RECEPTACLE AND FUSE LINK
F←N→R
FORWARD/REVERSE HANDLE

EIGHT-PASSENGER VILLAGER VEHICLE (REAR)



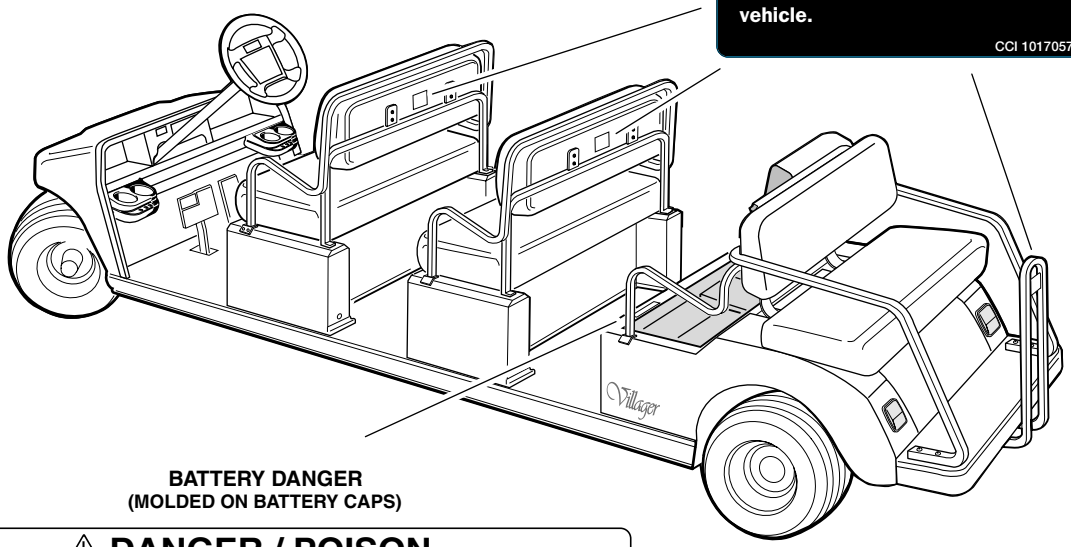
**PASSENGER
WARNING DECAL**

⚠ WARNING

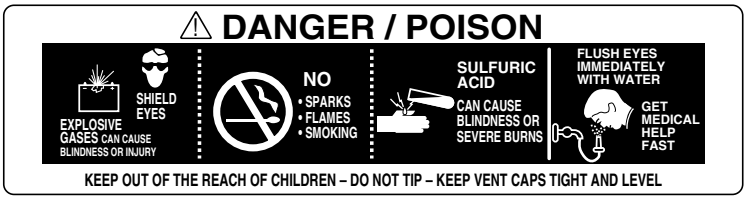
Failure to follow these instructions can cause severe injury or death.

- **Remain seated with entire body inside vehicle and hold on to seat handle or handrail at all times.**
- **No more than two persons per seat.**
- **Do not leave children unattended on vehicle at anytime.**
- **Never stand in front of or behind vehicle.**

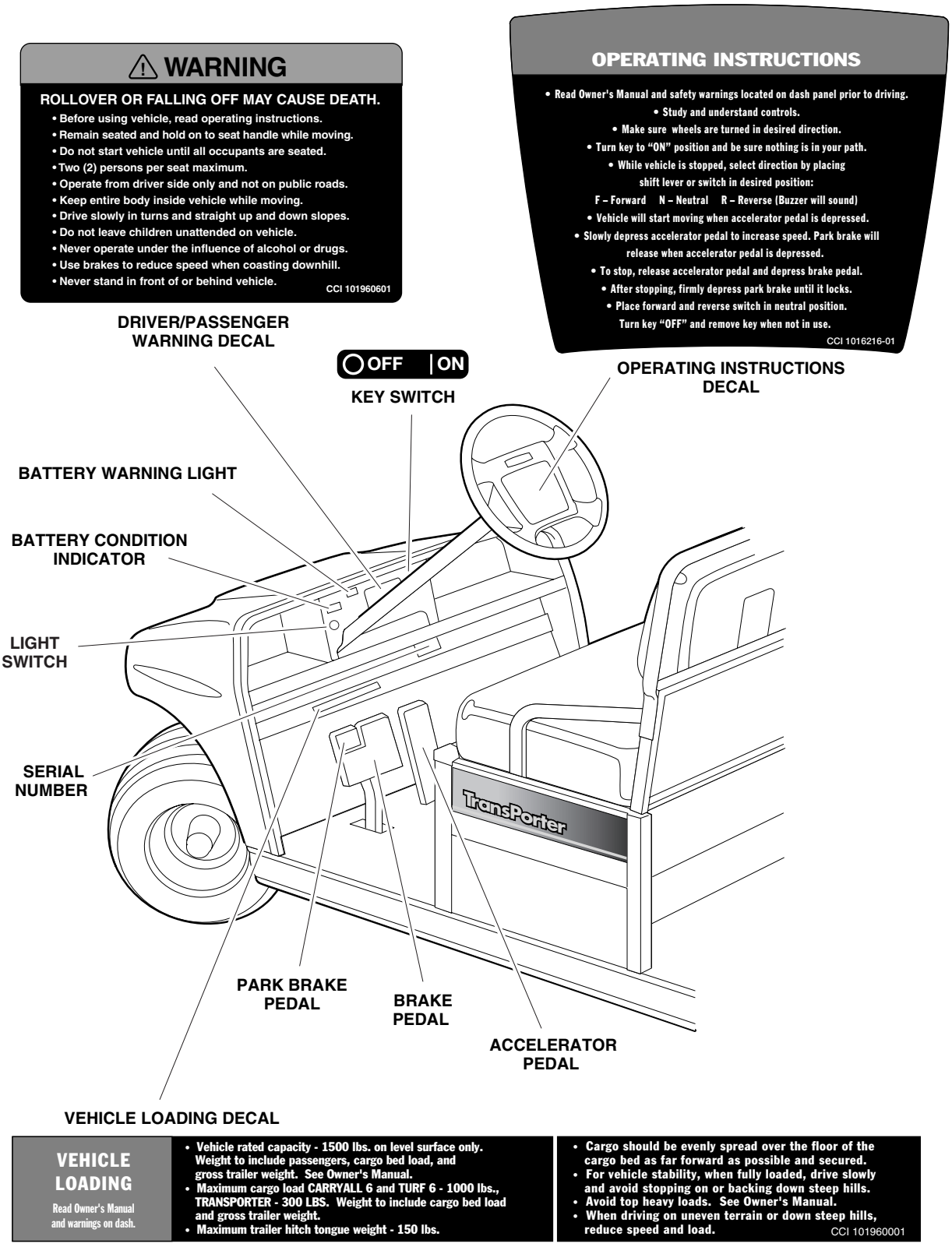
CCI 1017057-01



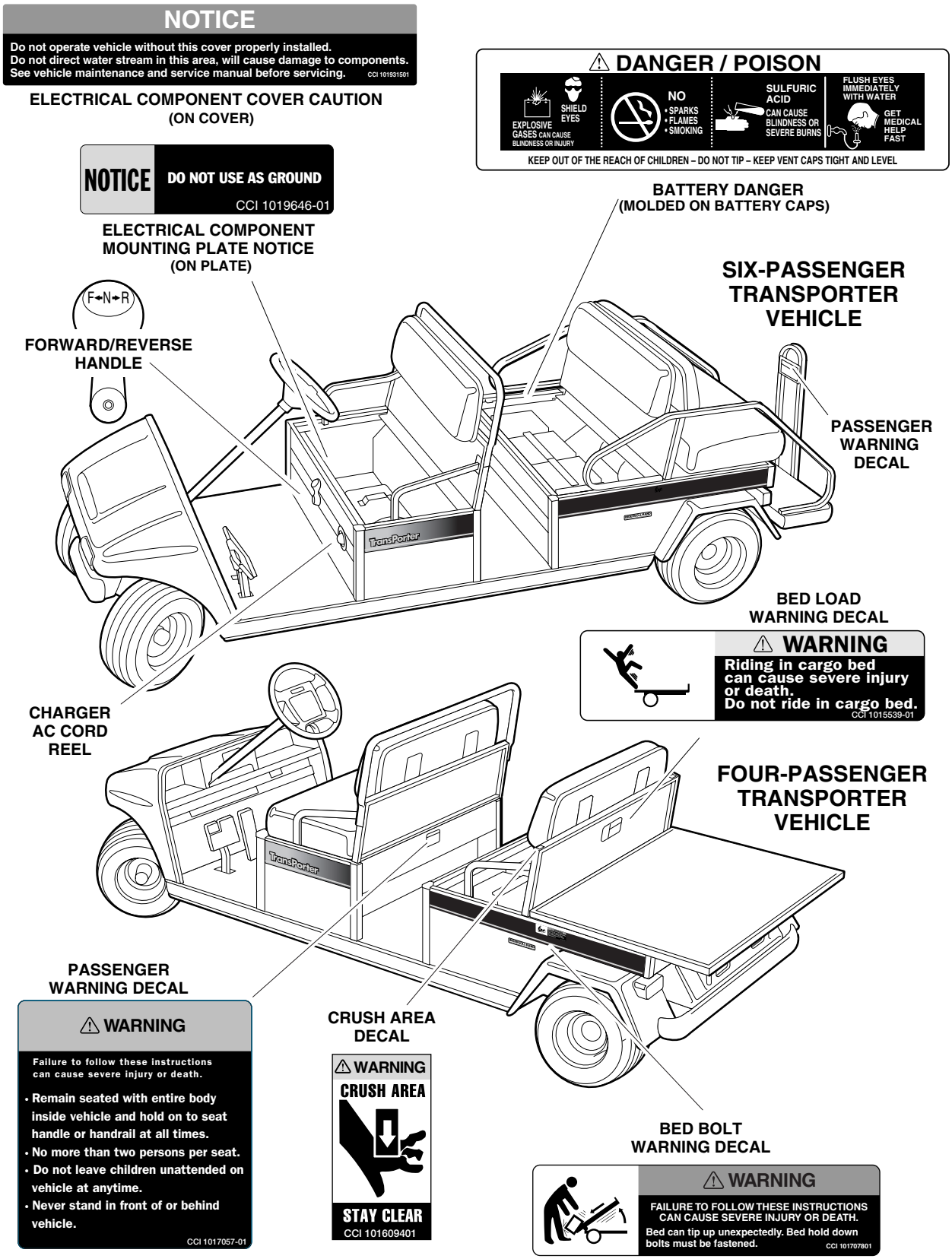
**BATTERY DANGER
(MOLDED ON BATTERY CAPS)**


⚠ DANGER / POISON
SHIELD EYES
EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY
NO
• SPARKS
• FLAMES
• SMOKING
SULFURIC ACID
CAN CAUSE BLINDNESS OR SEVERE BURNS
FLUSH EYES IMMEDIATELY WITH WATER
GET MEDICAL HELP FAST
KEEP OUT OF THE REACH OF CHILDREN – DO NOT TIP – KEEP VENT CAPS TIGHT AND LEVEL

TRANSPORTER VEHICLES


⚠ WARNING
ROLLOVER OR FALLING OFF MAY CAUSE DEATH.
• Before using vehicle, read operating instructions.
• Remain seated and hold on to seat handle while moving.
• Do not start vehicle until all occupants are seated.
• Two (2) persons per seat maximum.
• Operate from driver side only and not on public roads.
• Keep entire body inside vehicle while moving.
• Drive slowly in turns and straight up and down slopes.
• Do not leave children unattended on vehicle.
• Never operate under the influence of alcohol or drugs.
• Use brakes to reduce speed when coasting downhill.
• Never stand in front of or behind vehicle.
CCI 101960601
OPERATING INSTRUCTIONS
• Read Owner's Manual and safety warnings located on dash panel prior to driving.
• Study and understand controls.
• Make sure wheels are turned in desired direction.
• Turn key to "ON" position and be sure nothing is in your path.
• While vehicle is stopped, select direction by placing shift lever or switch in desired position:
F – Forward N – Neutral R – Reverse (Buzzer will sound)
• Vehicle will start moving when accelerator pedal is depressed.
• Slowly depress accelerator pedal to increase speed. Park brake will release when accelerator pedal is depressed.
• To stop, release accelerator pedal and depress brake pedal.
• After stopping, firmly depress park brake until it locks.
• Place forward and reverse switch in neutral position.
Turn key "OFF" and remove key when not in use.
CCI 1016216-01
DRIVER/PASSENGER WARNING DECAL
OFF ON
KEY SWITCH
OPERATING INSTRUCTIONS DECAL
BATTERY WARNING LIGHT
BATTERY CONDITION INDICATOR
LIGHT SWITCH
SERIAL NUMBER
TransPorter
PARK BRAKE PEDAL
BRAKE PEDAL
ACCELERATOR PEDAL
VEHICLE LOADING DECAL
VEHICLE LOADING
Read Owner's Manual and warnings on dash.
• Vehicle rated capacity - 1500 lbs. on level surface only. Weight to include passengers, cargo bed load, and gross trailer weight. See Owner's Manual.
• Maximum cargo load CARRYALL 6 and TURF 6 - 1000 lbs., TRANSPORTER - 300 LBS. Weight to include cargo bed load and gross trailer weight.
• Maximum trailer hitch tongue weight - 150 lbs.
• Cargo should be evenly spread over the floor of the cargo bed as far forward as possible and secured.
• For vehicle stability, when fully loaded, drive slowly and avoid stopping on or backing down steep hills.
• Avoid top heavy loads. See Owner's Manual.
• When driving on uneven terrain or down steep hills, reduce speed and load.
CCI 101960001

TRANSPORTER VEHICLES


NOTICE
Do not operate vehicle without this cover properly installed.
Do not direct water stream in this area, will cause damage to components.
See vehicle maintenance and service manual before servicing.
CCI 101931501
ELECTRICAL COMPONENT COVER CAUTION
(ON COVER)
⚠ DANGER / POISON
SHIELD EYES
EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY
NO
• SPARKS
• FLAMES
• SMOKING
SULFURIC ACID
CAN CAUSE BLINDNESS OR SEVERE BURNS
FLUSH EYES IMMEDIATELY WITH WATER
GET MEDICAL HELP FAST
KEEP OUT OF THE REACH OF CHILDREN – DO NOT TIP – KEEP VENT CAPS TIGHT AND LEVEL
NOTICE
DO NOT USE AS GROUND
CCI 1019646-01
ELECTRICAL COMPONENT MOUNTING PLATE NOTICE
(ON PLATE)
BATTERY DANGER
(MOLDED ON BATTERY CAPS)
F↔N↔R
FORWARD/REVERSE HANDLE
SIX-PASSENGER TRANSPORTER VEHICLE
PASSENGER WARNING DECAL
TransPorter
BED LOAD WARNING DECAL
⚠ WARNING
Riding in cargo bed can cause severe injury or death.
Do not ride in cargo bed.
CCI 1015539-01
CHARGER AC CORD REEL
FOUR-PASSENGER TRANSPORTER VEHICLE
TransPorter
PASSENGER WARNING DECAL
⚠ WARNING
Failure to follow these instructions can cause severe injury or death.
• Remain seated with entire body inside vehicle and hold on to seat handle or handrail at all times.
• No more than two persons per seat.
• Do not leave children unattended on vehicle at anytime.
• Never stand in front of or behind vehicle.
CCI 1017057-01
CRUSH AREA DECAL
⚠ WARNING
CRUSH AREA
STAY CLEAR
CCI 101609401
BED BOLT WARNING DECAL
⚠ WARNING
FAILURE TO FOLLOW THESE INSTRUCTIONS CAN CAUSE SEVERE INJURY OR DEATH.
Bed can tip up unexpectedly. Bed hold down bolts must be fastened.
CCI 101707801

GENERAL INFORMATION

There are two electric Transportation models: the Villager and the TransPorter. The four-passenger Villager vehicle uses the IQ System electrical system; six- and eight-passenger Villager and Transporter vehicles use the PowerDrive System 48 electrical system. Throughout this manual, important features unique to each model are highlighted. We urge the owner/operator to read and understand this manual, and to pay special attention to the features specific to their vehicle(s).

MODEL IDENTIFICATION

The serial number of your Club Car vehicle is printed on a bar code decal mounted on the frame directly above the accelerator pedal (Example: T0301-123456) **(Figure 2)**. There is also a second serial number decal mounted on the front body frame behind the center dash panel. The center dash panel must be removed to view this decal. **See following NOTE.**

NOTE: *Always have the vehicle serial number at hand when ordering parts or making inquiries.*

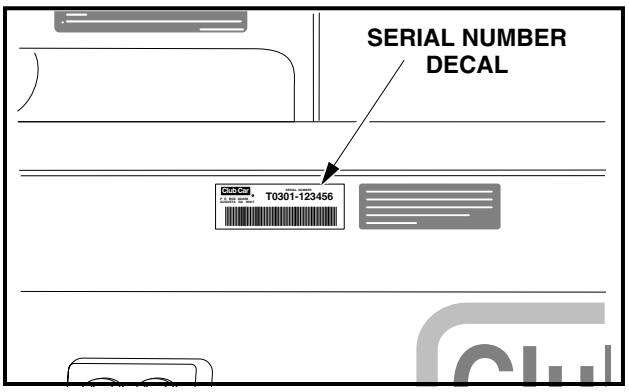


Figure 2 Serial Number Decal

CONTROLS AND INDICATORS

Read DANGER and WARNING on page 6.

⚠ WARNING

- **Before allowing anyone to drive the vehicle, make sure the driver is familiar with all controls and operating procedures.**
- **Any modification or change to the vehicle that affects the stability or handling of the vehicle, or increases maximum vehicle speed beyond factory specifications, could result in severe personal injury or death.**
- **Do not shift the Forward/Reverse handle or switch while the vehicle is moving. To avoid injury to passenger(s) or damage to the vehicle, always bring the vehicle to a full stop before shifting the handle or switch.**
- **Release the accelerator pedal and then depress the brake pedal firmly until the vehicle stops. To avoid unintentionally starting or rolling the vehicle, set the park brake, turn the key switch to OFF, and remove the key when leaving the vehicle.**

KEY SWITCH

The key switch is mounted on the dash to the right of the steering column **(Figure 3)**. It has two positions, OFF and ON, which are clearly labeled. **See following NOTE.**

NOTE: *The key can be removed only when the key switch is in the OFF position.*

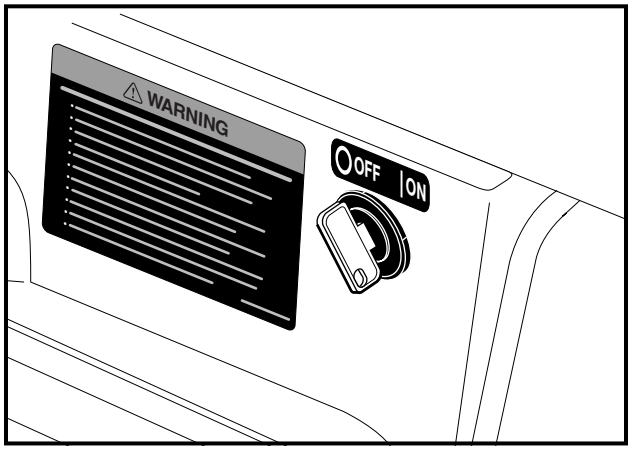


Figure 3 Key Switch

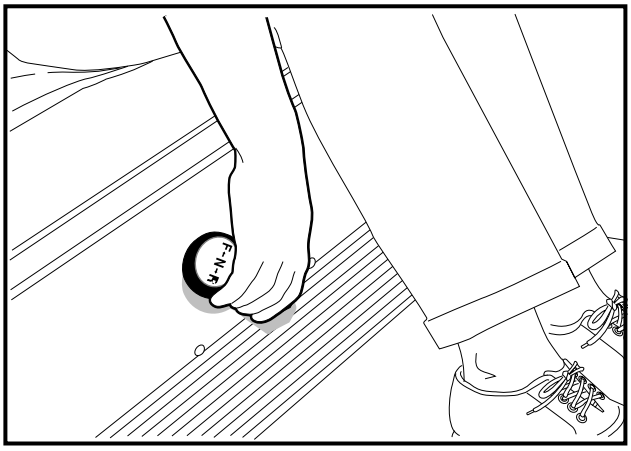


Figure 4 Forward/Reverse Handle

FORWARD/REVERSE CONTROLS

PowerDrive System 48 Vehicles

The Forward/Reverse handle is located on the seat support panel **(Figure 4)**. The handle has three distinct positions: **F** (FORWARD), **N** (NEUTRAL), and **R** (REVERSE). Rotate the handle towards the driver (FORWARD) to operate the vehicle in the forward direction, or towards the passenger (REVERSE) to operate the vehicle in reverse. When the handle is in the straight up position (NEUTRAL), the vehicle will not operate. Club Car transportation vehicles operate at reduced speed in reverse. The reverse buzzer will sound as a warning when the Forward/Reverse handle is in REVERSE.

IQ System Vehicles

The Forward/Reverse rocker switch is located in the same place as the Forward/Reverse handle on other models: on the seat support panel below and to the right of the driver's right knee. The **F** (FORWARD) and **R** (REVERSE) positions are clearly marked. Push down the FORWARD side of the switch to operate the vehicle in the forward direction, or push down the REVERSE side of the switch to operate the vehicle in reverse. When the rocker switch is positioned in NEUTRAL, with neither side down, the vehicle will not operate if the accelerator pedal is depressed **(Figure 5)**. The reverse buzzer will sound as a warning when the Forward/Reverse switch is in REVERSE.

ACCELERATOR PEDAL

The accelerator pedal is the pedal on the right, with the word GO molded into it **(Figure 6)**. The operation of the accelerator pedal differs from that of an automobile. When the key switch is ON, and the Forward/Reverse handle or switch is in either FORWARD or REVERSE, depressing the accelerator pedal will automatically release the park brake and start the vehicle moving in the direction selected (forward or reverse). As the accelerator pedal is depressed, speed will increase until full speed is reached. When the accelerator pedal is released, power will be cut off and the motor will stop running.

NOTE: IQ System vehicles only: *See "pedal-up" and "pedal-down" motor braking on page 21.*

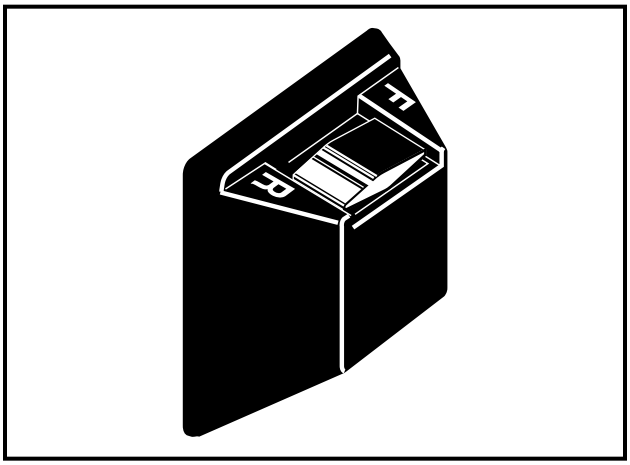


Figure 5 Forward/Reverse Rocker Switch

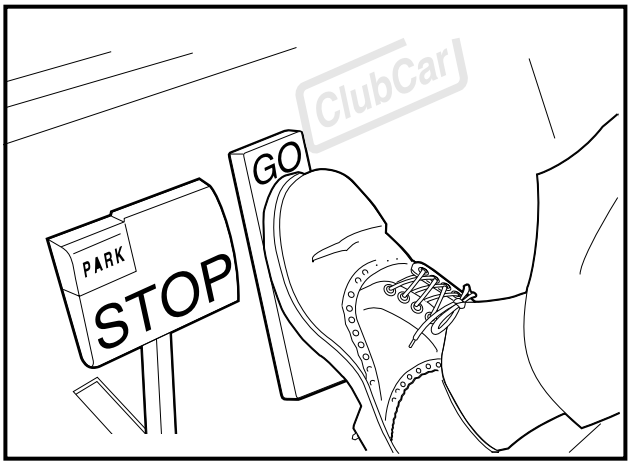


Figure 6 Accelerator and Brake Pedals

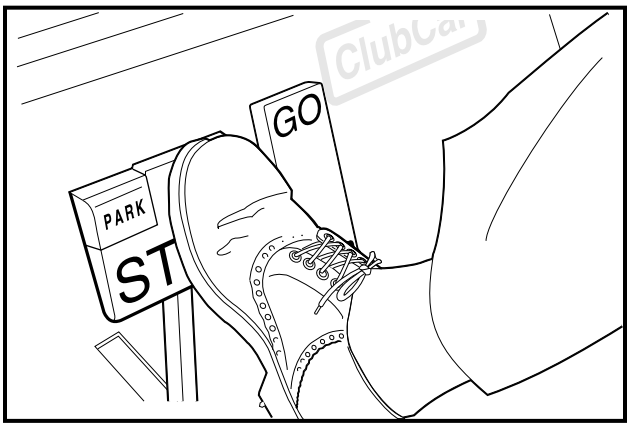


Figure 7 Brake Pedal

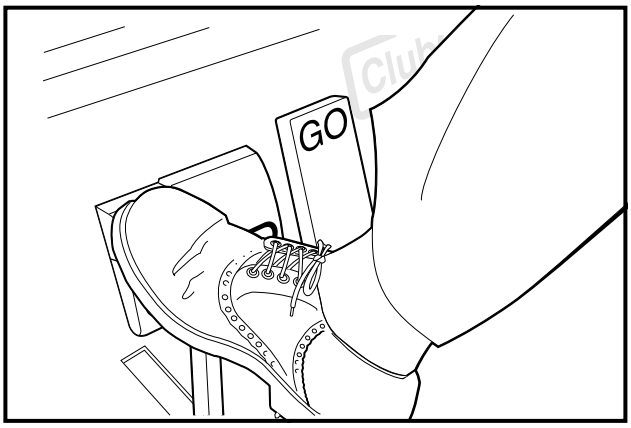


Figure 8 Park Brake Pedal

BRAKE PEDAL

The brake pedal is the large pedal on the left with the word STOP molded into it **(Figure 6)**. To slow or stop the vehicle, depress the brake pedal with your foot **(Figure 7)**.

PARK BRAKE PEDAL

The park brake pedal is the small raised portion in the upper left corner of the brake pedal. It has the word PARK molded into it and the words PARK BRAKE marked on top **(Figure 7)**. To set the park brake, depress the brake pedal firmly and tilt the park brake portion of the pedal forward **(Figure 8)**. **See following WARNING.**

⚠ WARNING

- **The park brake will release automatically when either the accelerator or brake pedal is depressed. The park brake has multiple locking positions and should be firmly pressed and locked to prevent the vehicle from rolling.**

HEADLIGHT CONTROL

TransPorter, Six and Eight-passenger Villager Vehicles Only

The headlight control is located on the front dash between the battery condition indicator and steering column. Pull the headlight control knob out to turn headlights on and push the knob in to turn headlights off.

BATTERY CONDITION INDICATOR

TransPorter, Six and Eight-passenger Villager Vehicles Only

The battery condition indicator features a 10-bar LED display that, when the vehicle is in operation, displays the level of battery capacity, measuring battery voltage over a period of time.

When batteries are fully charged, all indicator lights will be on. When battery voltage drops below 75% of full discharge, the last two indicator lights will flash alternately. Continued use of vehicle after indicator lights begin flashing without recharging could result in decreased vehicle performance.

⚠ CAUTION

- **If the battery condition indicator moves rapidly (approximately 45 minutes) from full charge to empty, there may be a problem with the wiring or with a battery cell. If indicator display does not reset back to full after recharging, there may be a problem with the battery charger or with one of the batteries. In either case the vehicle should be checked by a Club Car dealer or a trained technician.**

BATTERY WARNING LIGHT

PowerDrive System 48 and IQ System vehicles feature a dash mounted warning light (above steering column) that, when the vehicle is in operation, indicates low battery voltage or, when the vehicle is being charged, indicates a charging problem. The battery warning light is controlled by the onboard computer.

When the vehicle is in operation, the warning light will illuminate and remain illuminated if:

- Batteries voltage drops below 48 volts when there is no load on the batteries (the vehicle is stopped and there are no accessories on).
- Batteries have discharged to less than 25% of rated capacity.

If the warning light comes on when the vehicle is operating, there will be enough power remaining to drive the vehicle for approximately 30 minutes. However, the vehicle should be charged at the first opportunity. If the warning light comes on and the vehicle is unable to operate for 30 minutes, have your Club Car distributor/dealer check the vehicle for a possible battery or electrical system problem.

When the batteries receive an incomplete charge because 1) the DC power cord is disconnected, 2) AC power to the charger is interrupted, 3) automatic charger shut-off occurs after 16 hours of operation, or 4) the charger malfunctions, the warning light will indicate as follows:

- The warning light will not come on if the charge is 90% or more complete. The onboard computer will retain in memory the amount of charge needed to fully replenish the batteries and will complete the charge during the next charge cycle.
- When the charger is unplugged, the warning light will illuminate and remain illuminated for 10 seconds if the charge is less than 90% complete but the vehicle has enough power for approximately 30 minutes of operation. This will alert the operator that the vehicle may be used, but that it must be charged to completion as soon as possible.
- The warning light will repeatedly illuminate for 10 seconds, with 4 second intervals if the charger times out at 16 hours and the batteries are not sufficiently charged. **See the battery charger owner's manual.** This indicates an abnormal charge cycle. The charger and batteries should be checked by your Club Car distributor/dealer.

- The warning light will repeatedly illuminate for 10 seconds, with 4 second intervals during a charge cycle (DC plug is still connected) if AC power to the charger is interrupted. The light will go out when AC power is restored.

LED Light: In addition to the warning light, there is an infrared LED in the dash light assembly, which transmits an infrared signal from the onboard computer (OBC). This signal is received by the optional Communication Display Module, which provides information on the condition of the vehicle and batteries.

TOW/RUN SWITCH

IQ System Vehicles Only

⚠ WARNING

- **Place Tow/Run switch in the TOW position before disconnecting or connecting the batteries. Failure to heed this warning could result in a battery explosion or severe personal injury.**
- **When the Tow/Run switch is in the TOW position, all motor braking functions, including zero-speed detect, are disabled.**

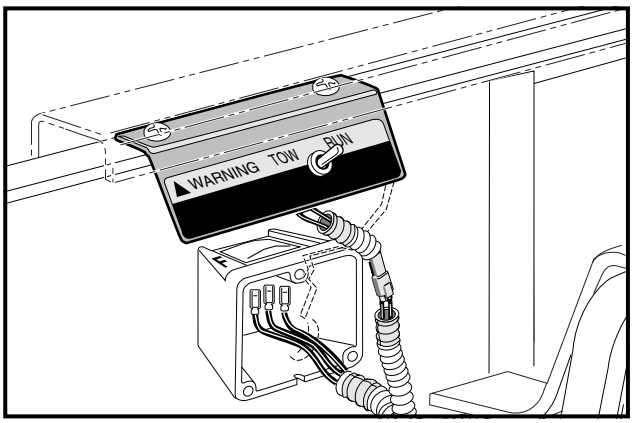


Figure 9 Tow/Run Switch

IQ System vehicles are equipped with a Tow/Run switch, located under the seat just above the Forward/Reverse switch **(Figure 9)**. The switch must be in the RUN position in order to operate the vehicle. When the switch is in the TOW position, power to the vehicle electrical components is turned off and the vehicle will not operate. **See following NOTE.**

NOTE: *After placing the Tow/Run switch in the TOW position, allow 10 seconds to elapse before switching back to the RUN position.*

After placing the Tow/Run switch in RUN position, allow 10 seconds to elapse before operating the vehicle.

The Tow/Run switch should be placed in the TOW position under the following conditions:

- **Before Towing the Vehicle:** Place the Tow/Run switch in the TOW position to disable all motor braking functions, thus preventing possible damage that could occur to the vehicle or electrical components if the vehicle is towed while the Zero-Speed Detect motor braking function is operating.
- **Before Disconnecting or Connecting Battery Cables:** Place the Tow/Run switch in the TOW position to turn off power to the vehicle electrical system, thus preventing severe arcing and possible battery explosion as the battery cables are disconnected.
- **For Long Term Storage:** Place the Tow/Run switch in the TOW position to turn off power to the vehicle electrical system, thus preventing vehicle electrical components from discharging the batteries.

PRE-OPERATION AND DAILY SAFETY CHECKLIST

Each Club Car vehicle has been thoroughly inspected and adjusted at the factory; however, upon receiving your new vehicle(s), you should become familiar with its controls, indicators, and operation. Carefully inspect each vehicle to ensure that it is in proper working condition before accepting delivery.

Use the following checklist as a guide to inspect the vehicle. This checklist should be used daily to ensure that the vehicle is in proper working condition and in conjunction with the Periodic Service Schedule on page 27. Any problems should be corrected by a Club Car distributor/dealer or a trained technician.

- **General:** All the parts should be in place and properly installed. Be sure that all nuts, bolts, and screws are tight.
- **Safety and information decals:** Check to ensure that all safety and information decals are in place. **See pages 8 through 14.**
- **Tires:** Check for proper tire pressure. **See Vehicle Specifications on page 36.** Visually inspect for wear, damage, and proper inflation.
- **Batteries:** Before using vehicle for the first time check electrolyte to ensure it is at the proper level **(Figure 11, Page 30)**. Check battery posts. Wires should be tight and free of corrosion and batteries should be fully charged.
- **Charger cord, plug, and receptacle:** Visually inspect for crack, loose connections, and frayed wiring. **See Plug and Receptacle on page 33.**

⚠ WARNING

- **Be sure the plastic has been removed from the seat bottom before operating the vehicle. Failure to do so may result in fire, property damage, personal injury, or death.**

PERFORMANCE INSPECTION

After you have familiarized yourself with the vehicle controls and have read and understood the driving instructions, take the vehicle for a test drive.

Use the following checklist as a guide to inspect the vehicle and check daily for proper operation. Any problems should be corrected by a Club Car distributor/dealer or a trained technician.

All Vehicles

- **Forward/Reverse switch:** Check for proper operation. **See Controls and Indicators on page 15.**
- **Brakes:** Be sure the brakes function properly. When brake pedal is fully depressed under moderate pressure, it should not go more than halfway to the floor, and vehicle should come to a smooth, straight stop. If the brake pedal goes more than halfway to the floor or if the vehicle swerves or fails to stop, have the brake system checked and adjusted as required. Brake adjustment must be maintained so that the brake pedal cannot be depressed to the floor under any circumstance.
- **Park brake:** When latched, the park brake should lock the wheels and hold the vehicle stationary (on an incline of 20% or less). It should release when either the accelerator or brake pedal is depressed.
- **Reverse buzzer:** The reverse buzzer will sound as a warning when the Forward/Reverse handle or switch is in REVERSE.
- **Steering:** The vehicle should be easy to steer and should not have any play in the steering wheel.
- **Accelerator:** As the accelerator pedal is depressed, the motor should start and the vehicle should accelerate smoothly to full speed. When the pedal is released it should return to the original position and the motor should rotate freely. The vehicle will run at a reduced speed when in REVERSE.
  IQ System vehicles only: When the pedal is released it should return to the original position and the motor should rotate freely or go into motor braking mode. **See "Pedal Up" motor braking below.**

- **General:** Listen for any unusual noises such as squeaks or rattles. Check the vehicle ride and performance. Have a Club Car distributor/dealer or a trained technician investigate anything unusual.

IQ System Vehicles

- **Zero Speed Detect:** With the vehicle parked on level ground and the park brake disengaged, place the Tow/Run switch in the RUN position and attempt to push the vehicle. Motor braking should engage and cause resistance to rolling (moving at no more than 1 to 3 mph) (1.5 or 4.8 km/h) with the Forward/Reverse switch in any position. When zero speed detect motor braking is engaged, the reverse buzzer should emit a distinct pattern of beeps.
- **"Pedal Up" Motor Braking (adjustable on IQ System vehicles):** Accelerate the vehicle to full speed and then release the accelerator pedal. Motor braking should quickly and smoothly slow the vehicle to approximately 9 mph. Motor braking will disengage when vehicle slows to 9 mph (15 km/h). This feature is adjustable for IQ System vehicles only. Contact your local Club Car dealer/distributor to inquire about this adjustable feature.
- **"Pedal Down" Motor Braking:** Accelerate down an incline with the accelerator pedal depressed. When the vehicle reaches maximum designed speed, motor braking should engage and limit the vehicle to its maximum designed speed. On very steep grades, the vehicle may slightly exceed its maximum designed speed, requiring use of the brake pedal.

DRIVING INSTRUCTIONS

⚠ WARNING

- **Only licensed drivers should be allowed to drive the vehicle.**
- **Before allowing anyone to drive the vehicle, make sure the driver is familiar with all controls and operating procedures.**
- **No more than two people per seat at one time.**
- **Do not allow riders in the cargo bed.**
- **The vehicle is not specially equipped for handicapped persons:**
  - **Make sure all persons can properly operate the vehicle prior to allowing them to drive the vehicle.**
  - **Make sure all passengers are capable of securing themselves in a vehicle before allowing them to ride in one.**
- **For night use, vehicle must be equipped with headlights, taillights, and reflectors.**
- **Stop vehicle before shifting Forward/Reverse handle or switch. Failure to do so may result in injury to inattentive passengers and (or) damage to the vehicle.**
- **To help avoid being struck, do not stand in front of or behind the vehicle.**
- **Do not leave children unattended on vehicle.**
- **Operate the vehicle from the driver seat only.**
- **To help prevent falls from the vehicle, remain seated and hold on to seat handles or handrails at all times. Driver should keep both hands on the steering wheel when the vehicle is in motion.**
- **To help prevent the possibility of serious injury, keep entire body inside vehicle.**
- **To help prevent vehicle from overturning, drive slowly in turns.**
- **To help prevent vehicle from overturning, drive slowly straight up and down slopes. Avoid driving the vehicle on slopes exceeding 20% incline.**

- **Avoid stopping a loaded vehicle on a hill. If a loaded vehicle must be stopped on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could result in the vehicle overturning.**
- **To help avoid possible injury to inattentive passengers and (or) damage to the vehicle, avoid sudden starts, sudden stops, and abrupt turns.**
- **To help avoid the possibility of losing control of or overturning the vehicle, reduce speed for adverse driving conditions such as wet grass or rough terrain.**
- **Do not use the vehicle on public roads. It is neither designed nor intended for street use and should not be licensed for use on public roads.**
- **The vehicle should be driven in only specified areas by trained operators.**
- **Do not drive while under the influence of alcohol, drugs, or medications.**
- **Use brakes to reduce speed when coasting downhill.**

No one should drive the vehicle without first being instructed in the proper operation and use of the vehicle's controls. An experienced operator should accompany each first-time driver on a test drive before allowing him/her to operate the vehicle alone.

To ensure safe operation of the vehicle, follow all procedures exactly as written. Read and understand all instructions prior to driving the vehicle.

STARTING THE VEHICLE

1. Make sure load is secure.
2. Make sure everyone is seated and holding onto seat handles or handrails. Driver should have both hands on the steering wheel.
3. Read safety warnings located on dash and (or) above pedals.
4. Make sure wheels are turned in desired direction.
5. Turn key to the ON position and make sure nothing is in your path.
6. Select direction by placing Forward/Reverse handle or switch in desired position (F = forward or R = reverse). A buzzer will sound as a warning when the Forward/Reverse handle or switch is in REVERSE.
7. Slowly depress accelerator pedal. The park brake will release automatically and the vehicle will start to move. As the accelerator pedal is depressed, speed will increase until full speed is reached.

⚠ WARNING

- **Operator must control speed when going downhill.**
- **IQ System vehicles only: "Pedal down" or "pedal up" motor braking may be used to help control speed when going downhill; however, steep terrain or other conditions may require that pedal braking be used in conjunction with motor braking.**

STOPPING THE VEHICLE

⚠ WARNING

- **Driving through water may affect the brakes. After driving through water, check effectiveness of the brakes by gently depressing the brake pedal. If the vehicle does not slow down at the normal rate, continue to depress the brake pedal until the brakes dry out and normal performance returns.**

⚠ CAUTION

- **When stopped on a hill, use the brake pedal to hold your position. Do not use the accelerator pedal.**

To stop the vehicle, release the accelerator pedal and depress the brake pedal until the vehicle comes to a complete stop.

PARKING AND LEAVING THE VEHICLE

1. After coming to a complete stop, firmly depress the park brake pedal until it locks. This will prevent the vehicle from rolling.
2. Turn the key switch to OFF and place the Forward/Reverse handle or switch in the NEUTRAL position. Remove the key when the vehicle is not in use.
3. **IQ System vehicles only:** When the Tow/Run switch is in the RUN position (with the Forward/Reverse switch or key switch in any position), the "zero speed detect" function will prevent the vehicle from rolling at more than 1 to 3 mph (1.5 to 4.8 km/h) unless the accelerator is depressed. This prevents the possibility of a parked vehicle (with the park brake disengaged) rolling away too fast to be overtaken on foot. **See Zero Speed Detect on page 21.**

LOADING AND UNLOADING

⚠ WARNING

- **Firmly engage the park brake before loading the vehicle.**
- **Do not allow riders in the cargo bed.**
- **Reduce vehicle load and speed when driving up or down slopes or on uneven terrain.**
- **Do not exceed the rated capacity of the vehicle. Rated capacity is for level surfaces only.**
- **Overloading can affect vehicle handling or cause component failure, resulting in loss of control of vehicle and possible severe personal injury or death.**
- **Reduce speed and avoid sudden stops when backing up. Failure to do so may cause the vehicle to overturn or flip over backwards.**
- **Do not load the tailgate. The tailgate should be in the upright position and latched securely while the vehicle is in motion.**
- **To help avoid shifting the vehicle load and possibly overturning the vehicle, avoid sudden starts, sudden stops, and abrupt turns. The cargo's center of gravity may affect the handling, steering, and braking of the vehicle.**
- **To help prevent cargo from shifting and possibly injuring a passenger or affecting the vehicle's handling, make sure cargo is well secured.**
- **Avoid top-heavy loads. The center of gravity of a load should never exceed 15 inches (38 cm) above the bottom of the cargo bed.**
- **Unload cargo bed before raising vehicle with hoist, jack, or other lifting device.**

Center and secure cargo as far forward as possible in the cargo bed. Do not overload the vehicle. **See the following chart for vehicle capacities.**

	Four-Passenger Villager	Six and Eight-Passenger Villager	Transporter
Maximum payload capacity (Cargo bed load and gross trailer weight)	n/a	n/a	300 lb. (136 kg) (four-passenger only)
Maximum vehicle capacity (Cargo bed load, passengers, and gross trailer weight)	800 lb. (363 kg)	1500 lb. (680 kg)	1500 lb. (680 kg)

TRANSPORTING ON A TRAILER

⚠ WARNING

- **Do not allow riders in the trailer being towed.**
- **Avoid sudden starts, sudden stops, and tight turns when towing.**
- **Avoid stopping on a hill when towing. If you must stop on a hill, avoid sudden starts or rolling backwards and stopping suddenly. Failure to heed this warning could cause the vehicle to overturn, possibly resulting in severe personal injury**
- **Reduce normal driving speed when towing a Club Car vehicle on a trailer.**
- **For use on public roads, the trailer must meet all federal, state, and local requirements such as taillights, brake lights, etc.**
- **Do not tow a Club Car vehicle behind a passenger vehicle or truck on a public road unless it is on an approved trailer.**
- **The vehicle to be towed should be tied securely to the trailer, with the Forward/Reverse handle or switch in NEUTRAL, the key switch OFF, and the park brake firmly depressed and locked.**
- **Because of the added length of the trailer, use caution when making turns.**
- **Do not transport the vehicle on a trailer with a load in the vehicle cargo bed.**
- **If vehicle is equipped with a windshield, remove the windshield before transporting on a trailer.**

If the vehicle must be transported over long distances or on public highways, it should be transported on an approved trailer that has the following approved load rating per vehicle being transported:

Four-passenger Villager	800 lb. (363 kg)
Six-passenger Villager	1600 lb. (727 kg)
Eight-passenger Villager	2000 lb. (909 kg)
TransPorter	2000 lb. (909 kg)

NOTE: *A two-car trailer should be rated at 2 x 1600 lb. = 3200 lb. (2 x 727 kg = 1454 kg) for six-passenger Villager, or 2 x 2000 lb. = 4000 lb. (2 x 909 kg = 1818 kg) for eight-passenger Villager or TransPorter vehicles.*

STORAGE

Read DANGER and WARNING on page 6.

⚠ WARNING

- **Turn the key switch OFF, remove the key, and leave the Forward/Reverse handle or switch in the NEUTRAL position during storage. This is to prevent unintentionally starting the vehicle or a fire hazard.**
- **Do not attempt to charge frozen batteries or batteries with bulged cases. Discard the battery. Frozen batteries can explode.**

⚠ CAUTION

- **Batteries in a low state of charge will freeze at low temperatures.**
- **When washing the vehicle, do not direct water stream at the MCOR, Forward/Reverse switch, or other electronic component.**
- **IQ System vehicles only: Place Tow/Run switch in TOW position.**

PREPARING THE VEHICLE FOR EXTENDED STORAGE

1. Unload the vehicle so that tires are supporting only the weight of the vehicle.
2. Fully charge batteries. **See Charging Batteries on page 32.**
3. Batteries should be clean and free of corrosion. Wash tops and terminals of batteries with a solution of baking soda and water (1 cup (237 mL) baking soda per 1 gallon (3.8 L) of water). Rinse solution off batteries. Do not allow this solution to enter the batteries. Be sure terminals are tight. Let the terminals dry and then coat them with Battery Terminal Protector Spray (CCI P/N 1014305).
4. Store vehicle in a cool, dry place. This will minimize battery self-discharge.
5. Adjust tires to recommended tire pressure. **See Vehicle Specifications on page 36.**
6. Lubricate front suspension and do all other semiannual periodic lubrication. **See Periodic Lubrication Schedule on page 28.**
7. Thoroughly clean front body, rear body, seats, cargo bed, battery compartment, and underside of vehicle.
8. Do not engage the park brake. Chock the wheels to prevent the vehicle from rolling.
9. Keep batteries fully charged during storage.
10. Leave PowerDrive Chargers plugged in during storage. The onboard computer will automatically activate the charger when necessary. If charger cannot remain plugged in, or AC power will not be available during extended storage, disconnect the batteries for storage **(Figure 1, Page 7)**.

RETURNING THE STORED VEHICLE TO SERVICE

1. If necessary, connect batteries.
2. Fully charge batteries.
3. Adjust tires to recommended tire pressure. **See Vehicle Specifications on page 36.**
4. Perform the Pre-Operation and Daily Safety Checklist on page 20.

MAINTENANCE

Read DANGER and WARNING on page 6.

To ensure trouble-free vehicle performance, it is very important to follow an established preventive maintenance program. Regular and consistent vehicle maintenance can prevent vehicle downtime and expensive repairs that can result from neglect. Use the Pre-Operation and Daily Safety Checklist on page 20 and the following Periodic Service Schedule and Periodic Lubrication Schedule to keep the vehicle in proper working condition.

Any vehicle not functioning correctly should be removed from use until it is properly repaired. This will prevent further damage to the vehicle and avoid the possibility of injury due to unsafe conditions.

Contact your local Club Car distributor/dealer to perform all repairs and semiannual and annual periodic service.

⚠ WARNING

- **If any problems are found during scheduled inspection or service, do not operate vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.**
- **Do not work on vehicle powertrain or under cargo bed when it is loaded.**
- **Hot! Do not attempt to service hot motor. Attempting to do so can cause severe burns.**

PERIODIC SERVICE SCHEDULE

⚠ WARNING

- **Service, repairs, and adjustments must be made per instructions in the maintenance and service manual.**

NOTE: *If the vehicle is constantly subjected to heavy use or severe operating conditions, the preventive maintenance procedures should be performed more often than recommended in the periodic service and lubrication schedules.*

Both the Periodic Service Schedule and Periodic Lubrication Schedule must be followed to keep vehicle in optimum operating condition.

PERIODIC SERVICE SCHEDULE

REGULAR INTERVAL	SERVICE	
Daily service by owner	Batteries	Charge batteries (after each use only).
Weekly service by owner	Batteries	Check electrolyte level. Add water if necessary per Section 13 – Batteries in the maintenance and service supplement.
Monthly service by owner or trained technician	Batteries	Wash battery tops and clean terminals with baking soda/water solution.
	Tires	Check air pressure and adjust if necessary. **See Vehicle Specifications on page 36.**
	General vehicle	Wash battery compartment and underside of vehicle.
Semiannual service by trained technician only (every 50 hours of operation)	Brake system	Check brake shoes; replace if necessary. **See Section 6 – Wheel Brake Assemblies in the appropriate maintenance and service manual.**
		Lubricate brake slides per Lubrication Schedule. **See Section 6 – Wheel Brake Assemblies in the appropriate maintenance and service manual.**
		Check brake cables for damage; replace if necessary.
	Electrical wiring and connections	Check for tightness and damage.
	Forward/Reverse switch	Check condition of contacts and wire connections; make sure connections are tight.
	Front wheel alignment and camber	Check and adjust if required. **See Section 7 – Steering and Front Suspension in the appropriate maintenance and service manual.**
	Motor controller output regulator (MCOR)	Check for loose hardware, cracks, or other damage.
Annual service by trained technician only (every 100 hours of operation)	Batteries	If batteries are not performing as expected, see Section 13 – Batteries in the maintenance and service supplement.

⚠ WARNING

- **If any problems are found during scheduled inspection or service, do not operate the vehicle until repairs are made. Failure to make necessary repairs could result in fire, property damage, severe personal injury, or death.**

PERIODIC LUBRICATION SCHEDULE

PERIODIC LUBRICATION SCHEDULE

REGULAR INTERVAL	SERVICE	LUBRICATION POINTS	RECOMMENDED LUBRICANT
Semiannually by owner or trained technician (every 50 hours of operation)	Brake pedal shaft bearings	1	Dry Moly Lube (CCI P/N 1012151)
	Brake linkage and pivots	2	Dry Moly Lube (CCI P/N 1012151)
	Accelerator pivot rod supports	3	Dry Moly Lube (CCI P/N 1012151)
	Charger receptacle (Villager vehicles only) Forward/Reverse switch contacts (PowerDrive vehicles only)	4	WD-40
	Brake slides	5	Dry Moly Lube (CCI P/N 1012151)
	Front suspension (5 fittings)	6	Chassis Lube – EP NLGI Grade 2
Annually by trained technician only (every 100 hours of operation)	Check/fill transaxle to plug level	7	22 oz. (0.67 liters) SAE 30 WT. API Class SE, SF, or SG Oil (or higher)
	Inspect front wheel bearings (Repack if necessary)	8	Chassis Lube – EP NLGI Grade 2

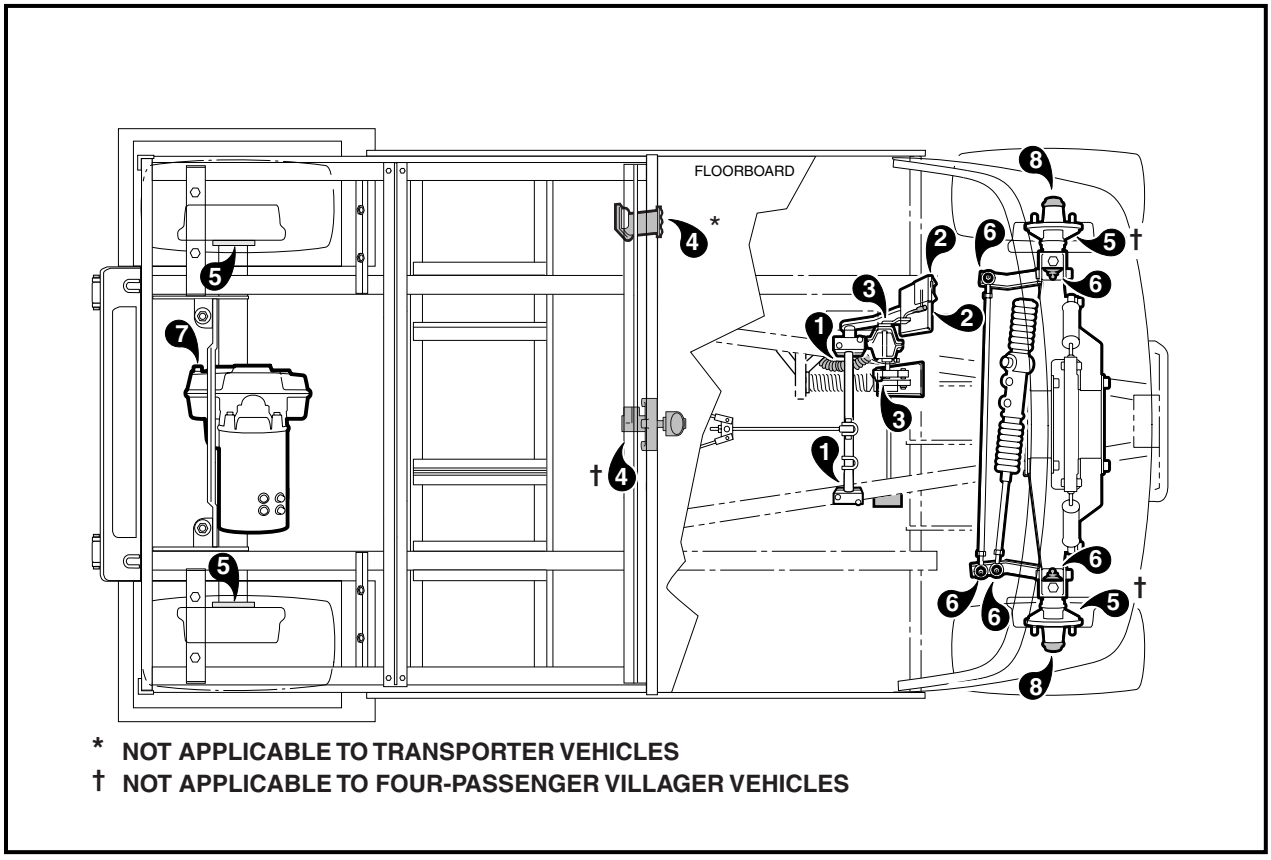


Figure 10 Lubrication Points

VEHICLE CONTROLLER

Electric vehicles are equipped with solid state speed controllers. In order to properly service and maintain the solid state speed controller vehicle, it is necessary to understand the electrical circuitry and the functions of all components in the system. Therefore, if any repair or service is required, Club Car recommends that it be performed by an authorized Club Car distributor/dealer using Club Car OEM parts.

BATTERIES

⚠ DANGER

- **Battery – Explosive gases! Do not smoke! Keep sparks and flames away from vehicle and service area. Tools, wires, and metal objects can cause sparks when shorted across a battery. Follow all instructions carefully when dealing with batteries.**
- **Charge batteries in a well-ventilated area only. Batteries emit hydrogen while being charged. Hydrogen is an explosive gas and must never exceed a level of 2% of the air.**
- **Battery – Poison! Contains acid! Causes severe burns. Avoid contact with skin, eyes, or clothing. Antidotes:**
  - **External: Flush with water for 15 minutes. Call a physician immediately.**
  - **Internal: Drink large quantities of milk or water followed with milk of magnesia or vegetable oil. Call a physician immediately.**
  - **Eyes: Flush with water for 15 minutes. Call a physician immediately.**

⚠ WARNING

- **Wear safety glasses or approved eye protection when servicing the vehicle. Wear a full face shield and rubber gloves when working with batteries.**
- **Use insulated tools when working around batteries or electrical connections.**

⚠ CAUTION

- **On all vehicles, turn off all accessories before charging batteries.**

NOTE: *Recycle or dispose of discarded batteries in accordance with local, state and federal regulations.*

The batteries in PowerDrive System 48 and IQ System electric vehicles are 8-volt, deep-cycle batteries, specially built for electric vehicle application. Automotive batteries should never be used.

New batteries will not deliver their full capabilities until they have been discharged and recharged 20 to 50 times. To obtain the maximum service life from new batteries, restrict the use of vehicles with new batteries to one hour of operation between charges for the first two months the vehicle is in service. Batteries should be fully charged before first use of new vehicle, before first use of a vehicle after storage, and before releasing vehicle for use each day.

BATTERY CARE

To keep batteries in good working condition, follow this maintenance program on a regular basis:

1. Batteries should be kept clean and free of corrosion. Wash tops and terminals of batteries with a solution of baking soda and water (1 cup (237 mL) baking soda per gallon (3.8 L) of water). Rinse solution off batteries. Do not allow this solution to enter the batteries. Be sure terminals are tight. Let the terminals dry and then spray them with Battery Terminal Protector Spray (CCI P/N 1014305).

NOTE: *Dispose of waste water properly.*

2. The electrolyte level in the batteries should be checked weekly **(Figure 11)**. Add water only after charging unless the electrolyte level is below the top of the plates. In this case, add just enough water to cover the plates, charge and then check the level again. Never charge batteries if plates are exposed above electrolyte level. For best battery life, use only distilled water.

NOTE: *A battery watering gun or bottle is available at many auto parts dealers.*

3. The hold-down straps should be tight enough so that the batteries do not move while the vehicle is in motion, but not so tight as to crack or buckle the battery case. Tighten hold-down retaining nuts to 40 in-lb (4.5 N·m). The terminal connections should be clean and tight, and any worn insulation or frayed wires should be replaced. Tighten battery terminals to 110 in-lb (12.4 N·m). **See following CAUTION.**

⚠ CAUTION

- **If battery wire terminals are damaged or corroded, they should be replaced or cleaned as necessary. Failure to do so may cause them to overheat during operation.**

4. After use, the batteries should be placed on charge. The batteries should never be left discharged any longer than absolutely necessary (do not leave batteries discharged overnight).

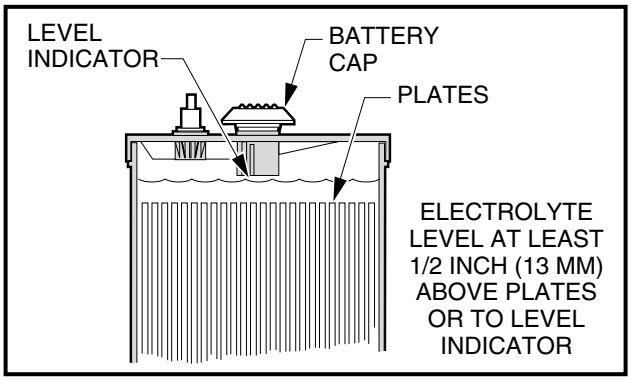


Figure 11 Battery Electrolyte Level

BATTERY CHARGER

Read DANGER and WARNING on page 6.

⚠ DANGER

- **The charging area must be ventilated. Hydrogen level in the air must never exceed 2%. The total volume of air in the charging area must be changed five times per hour. Exhaust fans should be located at the highest point of the roof. Contact a local HVAC engineer.**

- **Do not charge the vehicle batteries with the vehicle covered or enclosed. Any enclosure or cover should be removed or unzipped and pulled back when batteries are being charged. An accumulation of hydrogen gas could result in an explosion.**

⚠ WARNING

- **Only trained technicians should repair or service the charger. Contact a Club Car distributor/ dealer.**
- **Each charger should have its own dedicated 15 or 20 ampere separately protected (circuit breaker or fuse) single phase branch circuit, in accordance with all applicable electrical codes for the location.**
- **Have worn, cut, or damaged power cords or wires replaced immediately.**
- **Be sure that all wire connections at the receptacle and fuse link are clean and tight.**
- **Do not expose to rain or any liquid. Keep the charger dry.**
- **Do not use near fuels, grain dust, solvents, thinners, or other flammables. Chargers can ignite flammable materials and vapors.**
- **Connect the charger AC supply cord to a properly grounded, three-wire outlet of the proper voltage and frequency as shown on the charger.**
- **Do not use an adapter to plug the charger with a three-prong plug into a two-prong outlet. Improper connection of the equipment-grounding conductor can result in a fire or an electrical shock.**
- **Use only an extension cord or electrical outlet that will accept a three-prong plug. Extension cord should be a three-wire no. 12 AWG, and be as short as possible. The use of an improper extension cord could result in fire or an electrical shock.**
- **Do not operate the charger if it has received a sharp blow, was dropped, or otherwise damaged in any way.**
- **Never push objects of any kind into the charger through cabinet slots. They may touch dangerous voltage points or cause an electrical short circuit that could result in fire or electrical shock.**
- **Do not connect a stationary charger to the receptacle if the charger cord, plug, or the vehicle receptacle is broken, damaged, or does not make a good electrical connection. Fire or personal injury can result. Have a qualified technician repair or replace it immediately.**
- **When using a stationary charger, do not pull on the DC cord (Figure 13, Page 33). Do not twist, rock, or bend the plug. To disconnect the plug from the receptacle, grasp the plug, not the cord, and slowly pull it straight out of the receptacle (Figure 12, Page 33).**
- **When the charger is on, the charger DC cord may be disconnected from the vehicle receptacle *slowly*. Jerking or pulling the DC cord out quickly could cause arcing and burning which could damage the plug and receptacle and could cause batteries to explode.**
- **Do not use a charger if:**
  - **The plug is too loose or does not make a good connection.**
  - **The plug and receptacle feel hotter than normal during charge.**
  - **The plug pins or contacts are bent or corroded.**
  - **The plug, receptacle or cords are cut, worn, have any exposed wires, or are damaged in any way.**
- **Using a charger with any of the above symptoms could result in fire, property damage, personal injury, or death.**

⚠ CAUTION

- **Do not block or cover the charger ventilation slots. The slots provide ventilation and prevent the charger from overheating.**
- **Do not allow clothing, blankets, or other material to cover the charger.**
- **Do not allow the charger to operate for more than 30 minutes at 19 or more amperes.**
- **Install surge arrestors on incoming AC power lines. Surge arrestors will help protect electrical components in the charger and on the vehicle from all but direct or close lightning strikes.**

Each electric vehicle is supplied with either a fully automatic, stationary, battery charger (Villager vehicles) or fully automatic onboard charger (TransPorter) as standard equipment. The AC cord from the charger should be connected to a source capable of supplying 10 amperes minimum per charger.

To reduce the risk of electric shock, the battery charger must be grounded. The charger is equipped with an AC electric cord having an equipment-grounding conductor and a grounding type plug. The AC plug must be connected to an appropriate receptacle that is properly installed and grounded in accordance with the National Electrical Code and all local codes and ordinances. See the owner's manual supplied with the battery charger for specific operating instructions before using the charger.

NOTE: *Because the PowerDrive Chargers have a storage charge feature that automatically checks and recharges the batteries as necessary every 15 days, either charger can remain plugged to a PowerDrive vehicle throughout the storage period.*

Shortly after charging begins, PowerDrive Chargers will shut off in order to run a self-diagnostic program (ammeter will drop to zero). Charging will resume in a few moments (ammeter returns to previous rate of charge). This will be repeated at one hour and at two hours into the charge cycle.

The use of an extension cord with the charger should be avoided. If an extension cord must be used, use a three-conductor no. 12 AWG (American Wire Gauge) or no. 14 SWG (British Standard Wire Gauge), heavy-duty cord with ground, properly wired and in good electrical condition. Keep it as short as possible (no more than 12 feet (3.7 m)). Place all cords so they will not be stepped on, tripped over, or otherwise subject to damage or stress.

Ensure that the charger ventilation slots are unobstructed and that there is adequate ventilation.

CHARGING BATTERIES

NOTE: *When temperatures fall below 65 °F (18.3 °C), batteries charged in unheated areas should be placed on charge as soon as possible after use. Batteries are warmest immediately after use, while cold batteries require more time to fully charge.*

- **Villager (stationary charger)**
  Insert the charger AC plug into a dedicated AC receptacle that is properly grounded and wired in accordance with the National Electric Code and all local codes and ordinances. Then insert the charger DC plug into the vehicle receptacle. The charger will turn on two to ten seconds later **(Figure 12, Page 33)**.
- **TransPorter (onboard charger)**
  Insert the onboard charger AC plug into a dedicated AC receptacle that is properly grounded and wired in accordance with the National Electric Code and all local codes and ordinances. The charger will turn on two to ten seconds later.

PowerDrive Chargers interact with an onboard computer on the PowerDrive System 48 and IQ System vehicle. The computer records the amount of energy consumed during vehicle use. While the charger is plugged in the vehicle's control circuit is locked out, preventing operation of the vehicle, as well as the possibility of subsequent damage to the charger and the vehicle.

Once the lockout is actuated, the charger turns on. The onboard computer then records the amount of energy being returned to the batteries. When the optimum amount of energy needed to replenish the batteries is returned, the charger will turn off. The control circuit lockout remains activated until the charger plug is disconnected from the vehicle.

Only PowerDrive System 48 and IQ System vehicles are compatible with PowerDrive chargers. Other Club Car models or vehicles made by other manufacturers are not compatible.

As long as the charger is allowed to shut off by itself, the batteries will be fully charged. Overcharging and undercharging will normally be prevented.

Batteries should be put on charge even if they have been used for only a short time (10 minutes). The charger is automatic and will turn off when batteries are fully charged. If the charger does not seem to be operating properly, or if the batteries seem weak, contact a Club Car distributor/dealer.

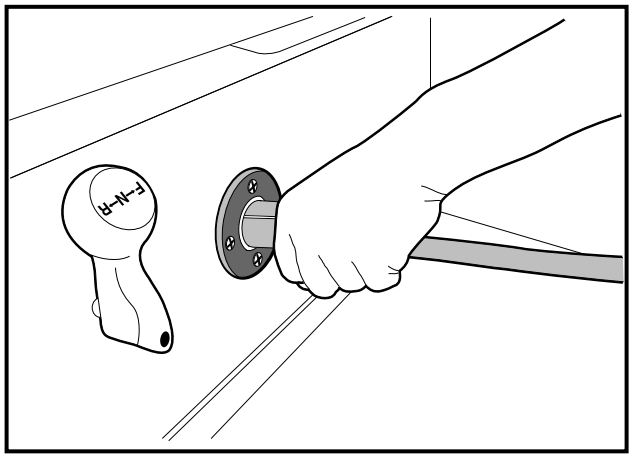


Figure 12 Correct Insertion of Charger DC Plug

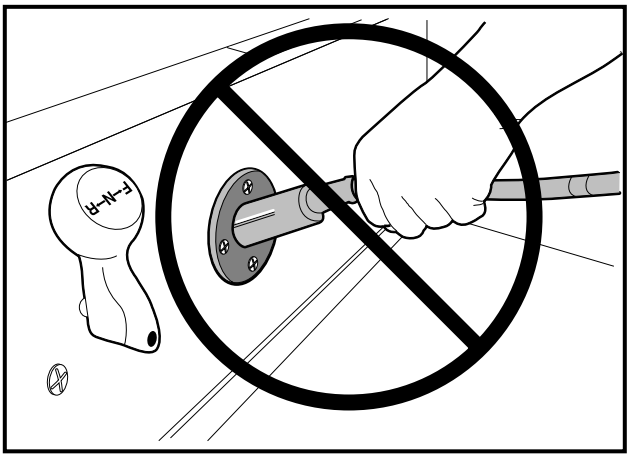


Figure 13 Incorrect Insertion of Charger DC Plug

PLUG AND RECEPTACLE

Villager vehicles: The charger cord, plug, and receptacle are wear items and should be inspected daily. Visually inspect them for cracks, loose connections, and frayed wiring; they must be replaced when worn or damaged. If charger plug or receptacle show signs of corrosion or the plug is difficult to insert or remove, the receptacle contacts and plug terminals should be cleaned with a good electrical contact cleaner or lightly sprayed with WD-40® brand spray lubricant. The plug should then be inserted and removed several times to ensure ease of insertion, ease of removal, and good electrical contact. **See following NOTE**.

NOTE: *If the warning tag has been damaged or removed from the DC cord, have it replaced immediately.*

RECEPTACLE FUSE LINK

Villager vehicles: As an additional feature to protect the batteries and charging circuit from an overload, the electric vehicle is equipped with a receptacle fuse link **(Figure 14)**. If the charger does not come on when the vehicle is placed on charge, visually inspect the fuse link. **See following WARNING.**

⚠ WARNING

- **If the receptacle fuse link is blown, determine the source of the problem and correct it before replacing the fuse.**
- **Never modify wiring to bypass the gray sense lead fuse (Figure 14).**

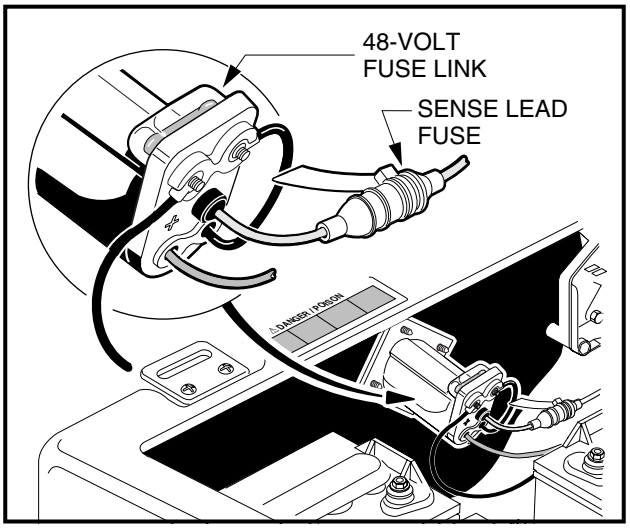


Figure 14 Receptacle Fuse Link

CLEANING THE VEHICLE

Transportation vehicles are equipped with ArmorFlex® front bodies and either ArmorFlex or all-aluminum rear bodies. The four-passenger TransPorter vehicle has an aluminum cargo bed. The center bodies of six and eight-passenger Villager vehicles are ABS/DR acrylic material. Use only commercially available automotive cleaner with a sponge or soft cloth for normal cleaning. A garden hose at normal residential water pressure is adequate. To remove oxidation or discoloration from aluminum, use a commercially available aluminum cleaner paste and fine grade (No. 00) steel wool.

Club Car does not recommend any type of pressure washing or steam cleaning. Such a process (especially if the vehicle has an ArmorFlex rear body that has been removed) will expose electrical components to moisture. Moisture entering electrical components can result in water damage and subsequent component failure.

Use non-abrasive wax products. Battery acid, fertilizers, tars, asphalt, creosote, paint, or chewing gum should be removed immediately to prevent possible stains.

The center bodies of six and eight-passenger Villager vehicles are made of an ABS/DR acrylic material similar to the material used to manufacture hot tubs and shower/tub units. Cleaning and repair techniques for the center body are the same as those used on conventional acrylic sheet. Repair kits, cleaning and polishing products may be purchased at any hardware store where ABS/DR acrylic (hot tubs and shower/tub units) are sold.

The seats of the vehicle will last longer with proper cleaning. Use a solution of 10% liquid soap and warm water applied with a soft cloth. For imbedded dirt, a soft bristle brush may be used. For heavy soiling, difficult stains or scratches, blemishes, or other body damage, see Section 4 of the maintenance and service manual.

NOTE: *Dispose of waste water properly.*

ACCESSORIES

There is a complete line of accessory equipment available from Club Car and our distributors/dealers. Contact a Club Car distributor/dealer for information about all of the accessories available for your vehicle.

Care should be taken that these accessories are properly installed by trained technicians and they are used in the manner for which they were designed.

⚠ WARNING

- **Custom cab assemblies, weatherproof enclosures, door kits, and tinted windshields will not protect occupants from flying objects (golf balls, etc.).**

SUBSEQUENT OWNER REGISTRATION

In the event a vehicle is bought used from another individual or from a distributor/dealer, we strongly urge the new owner to register the vehicle with Club Car. This will enable us to contact you if the need arises. Please send your name, address, and serial number(s) of the vehicle(s) to Club Car, Inc., P.O. Box 204658, Augusta, Georgia 30917-4658, Attention: Vehicle Registration.

VEHICLE SPECIFICATIONS

SPECIFICATIONS	Villager			TransPorter	
	Four-Passenger	Six-Passenger	Eight-Passenger	Four-Passenger	Six-Passenger
	IQ System	PowerDrive System 48		PowerDrive System 48	
POWER SOURCE					
Drive motor: Direct drive, 48-volt DC, series-wound, 3.1 hp		•	•	•	•
Drive motor: Direct drive, 48-volt DC, shunt-wound, 3.2 hp	•				
Transaxle: Double reduction helical gear with 12.3:1 direct drive axle	•	•	•	•	•
Electrical system: 48-volt DC, reduced speed reverse	•	•	•	•	•
Batteries: High capacity, deep cycle, Trojan Power-Drive 8-Volt, 117 min. capacity	•	•	•	•	•
Charger: Automatic, 48-volt, 17-amp PowerDrive; UL and CSA listed	•	•	•	•	•
STEERING/SUSPENSION/BRAKES					
Steering: Self-adjusting rack and pinion	•	•	•	•	•
Suspension: Front mono-leaf and rear multi-leaf springs with dual hydraulic shocks	•			•	•
Suspension: Front and rear multi-leaf springs with dual hydraulic shocks		•	•		
Brakes: Mechanical brake cable system to self-adjusting drum brakes on each rear wheel and single brake pedal with automatic-release park brake	•				
Brakes: Mechanical brake cable system to manually adjusted drum brakes on all four wheels and single brake pedal with automatic-release park brake		•	•	•	•
BODY/CHASSIS					
Frame/Chassis: Twin I-Beam welded aluminum	•	•	•	•	•
Side and rear body: All aluminum				•	•
Front body: ArmorFlex®	•	•	•	•	•
Front body finish: Matched paint finish over molded-in color	•	•	•	•	•
Center body: ABS/DR acrylic cap		•	•		
Tires: 18 x 8.50 – 8 tubeless, 4-ply rated load range front and rear	•				
Tires: 18 x 8.50 – 8 tubeless, 6-ply rated load range front and rear		•	•	•	•
DIMENSIONS/WEIGHT					
Overall length	100 in. (254 cm)	124 in. (315 cm)	157 in. (398 cm)	134 in. (340 cm)	133 in. (338 cm)
Overall width	47.3 in. (120 cm)	47.3 in. (120 cm)	47.3 in. (120 cm)	49.3 in. (125 cm)	49.3 in. (125 cm)
Overall height (at steering wheel)	48 in. (122 cm)	48 in. (122 cm)	48 in. (122 cm)	48 in. (122 cm)	48 in. (122 cm)
Wheelbase	65.5 in. (166 cm)	98.5 in. (250 cm)	131.5 in. (334 cm)	98.5 in. (250 cm)	98.5 in. (250 cm)

Specifications continued on next page...

SPECIFICATIONS	Villager			TransPorter	
	Four-Passenger	**Six-Passenger**	**Eight-Passenger**	**Four-Passenger**	**Six-Passenger**
	IQ System	**PowerDrive System 48**		**PowerDrive System 48**	
Ground clearance	4.5 in. (11 cm)	4.5 in. (11 cm)	4.5 in. (11 cm)	4.5 in. (11 cm)	4.5 in. (11 cm)
Front wheel tread	34.5 in. (88 cm)	34.5 in. (88 cm)	34.5 in. (88 cm)	34.5 in. (88 cm)	34.5 in. (88 cm)
Rear wheel tread	38.5 in. (98 cm)	38.5 in. (98 cm)	38.5 in. (98 cm)	38.5 in. (98 cm)	38.5 in. (98 cm)
Weight (without batteries)	525 lb. (238 kg)	590 lb. (268 kg)	704 lb. (328 kg)	700 lb. (317 kg)	717 lb. (325 kg)
Forward speed	12-15 mph (19-24 km/h)	12-15 mph (19-24 km/h)	12-15 mph (19-24 km/h)	12-15 mph (19-24 km/h)	12-15 mph (19-24 km/h)
Curb clearance circle (diameter)	17 ft.-6 in. (533 cm)	24 ft.-8 in. (752 cm)	32 ft.-7 in. (993 cm)	24 ft.-8 in. (752 cm)	24 ft.-8 in. (752 cm)
Turning radius (per SAE J 695)	68 in. (173 cm)	129 in. (328 cm)	191 in. (485 cm)	129 in. (328 cm)	129 in. (328 cm)
Intersecting aisle clearance	72 in. (183 cm)	89.8 in. (228 cm)	108 in. (274 cm)	89.8 in. (228 cm)	89.8 in. (228 cm)
Floorboard height	11.8 in. (30 cm)	11.8 in. (30 cm)	11.8 in. (30 cm)	11.8 in. (30 cm)	11.8 in. (30 cm)
Seat height (at seat bottom)	29.5 in. (75 cm)	30 in. (76 cm)	30 in. (76 cm)	30 in. (76 cm)	30 in. (76 cm)
Load bed height				27 in. (69 cm)	
Load bed size (flat bed dimensions)				35.8 in. x 44.3 in. (91 x 112 cm)	
Vehicle rated capacity (level surface only)	800 lb. (363 kg)	1500 lb. (680 kg)	1500 lb. (680 kg)	1500 lb. (680 kg)	1500 lb. (680 kg)
Standard seating capacity	4	6	8	4	6
LIQUID CAPACITIES					
Transaxle	22 oz. (.67 liters)	22 oz. (.67 liters)	22 oz. (.67 liters)	22 oz. (.67 liters)	22 oz. (.67 liters)
TIRE PRESSURE					
Front and rear	18-20 psi (1.24-1.38 Bars)	30-34 psi (2.07-2.34 Bars)	30-34 psi (2.07-2.34 Bars)	30-34 psi (2.07-2.34 Bars)	30-34 psi (2.07-2.34 Bars)

CLUB CAR® LIMITED TWO YEAR WARRANTY FOR 2003 TRANSPORTATION AND UTILITY VEHICLES

1. WARRANTY:

CLUB CAR, INC., ("CLUB CAR") hereby warrants to the Original Retail Purchaser that its new 2002 Model Transportation and Utility Vehicles purchased from CLUB CAR or an authorized dealer shall be free from defects in material and workmanship under normal use and service as a transportation or utility vehicle for the periods stated below, subject to the provisions, limitations and exclusions contained in this limited warranty.

LIMITED TWO YEAR / 2000 HOUR WARRANTY: The engine assembly, unitized transaxle assembly (gasoline vehicle), motor, transaxle assembly (electric vehicle), main frame assembly, hydraulic dump kit, Custom Cab assembly and doors, and Driving Range Protective Enclosure are warranted with respect to parts and labor against defects in material and workmanship for a period of two years or 2000 hours of operation, whichever first occurs, from the date of purchase.

LIMITED ONE YEAR / 1000 HOUR WARRANTY: All remaining components of the vehicle not specified otherwise, the Portable Refreshment Center, and all other original equipment options and accessories supplied by CLUB CAR are warranted with respect to parts and labor against defects in material and workmanship for a period of one year or 1000 hours of operation, whichever first occurs, from the date of purchase.

This limited warranty covers material, workmanship and repair labor cost as to those items specifically listed above for the periods specified. Such repair labor shall be performed only by CLUB CAR, its authorized dealers, or a service agency approved by CLUB CAR.

IF THE WARRANTY REGISTRATION FORM IS NOT COMPLETED AND RETURNED TO CLUB CAR AT THE TIME OF THE ORIGINAL RETAIL SALE, PURCHASER MUST PROVIDE PROOF OF DATE OF PURCHASE WITH ANY WARRANTY CLAIM.

2. EXCLUSIONS:

Excluded from any CLUB CAR warranty are all fuses, filters, decals (except safety decals), spark plugs, light bulbs, lubricants, trim pieces, seats, routine wear items such as the charger plug and receptacle, brake shoes, belts, brushes, bushings, engine mounts, mats and pads, maintenance adjustments, cosmetic deterioration, and items which deteriorate or fail due to exposure or ordinary wear and tear. Batteries, battery charger, onboard computer, and solid-state speed controller are covered under separate CLUB CAR warranties. Also excluded from any CLUB CAR warranty is damage to a vehicle or component resulting from a cause other than a defect including unreasonable or unintended strain or use, improper installation of accessories, installation of parts or accessories that are not original equipment, overloading, accident, alteration, abuse or neglect.

Transportation expenses for warranty services are also excluded from this warranty.

3. VOIDING OF WARRANTY:

THIS AND ANY OTHER WARRANTY SHALL BE VOID IF THE VEHICLE IS ABUSED OR USED IN AN UNINTENDED MANNER OR SHOWS INDICATIONS THAT IT HAS BEEN ALTERED IN ANY WAY, INCLUDING, BUT NOT LIMITED TO, MODIFICATION OF THE SPEED GOVERNOR, BRAKING SYSTEM, STEERING, TRANSAXLE, OR OTHER OPERATING SYSTEMS OF THE VEHICLE TO CAUSE IT TO PERFORM OUTSIDE CLUB CAR SPECIFICATIONS. THE WARRANTY IS LIKEWISE VOID IF THE VEHICLE INVOLVED SHOWS INDICATIONS THAT REASONABLE OR NECESSARY MAINTENANCE AS OUTLINED IN THE OWNER'S MANUAL AND MAINTENANCE AND SERVICE MANUAL WAS NOT PERFORMED AT THE TIME AND IN THE MANNER SPECIFIED IN SUCH MANUALS.

4. SOLE REMEDY:

CLUB CAR's liability under this limited warranty, or in any action whether based upon warranty, contract, negligence, strict product liability or otherwise, shall be the repair or replacement, at CLUB CAR's option, of the vehicle or component thereof that CLUB CAR deems to be defective. Replacement shall mean furnishing, during the applicable limited warranty period, a new vehicle or factory-reconditioned vehicle or component thereof that is identical or reasonably equivalent to the warranted product or component at no cost to the purchaser. Repair shall mean remedying a defect in the vehicle or component thereof at no cost to the purchaser during the applicable limited warranty period. If CLUB CAR elects to repair the vehicle, it may provide factory-reconditioned parts or components. All parts and components replaced under warranty shall become the property of CLUB CAR.

5. HOW TO MAKE A WARRANTY CLAIM:

To make a warranty claim under this limited warranty, you must present the vehicle or defective component to an authorized CLUB CAR dealer or send the defective component, freight prepaid, to WARRANTY SERVICES, CLUB CAR, INC., 4125 Washington Road, Evans, Georgia 30809, U.S.A., 706-863-3000.

6. DISCLAIMER:

THIS LIMITED WARRANTY IS EXCLUSIVE. CLUB CAR MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS OR TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY CLUB CAR AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND CLUB CAR EXPRESSLY AGREE THAT THE REMEDY OF THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. CLUB CAR MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND, AND NO REPRESENTATIVE, EMPLOYEE, OR DEALER OF CLUB CAR HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.

7. NO CONSEQUENTIAL DAMAGES:

IN NO EVENT SHALL CLUB CAR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS RELATED TO PROPERTY OTHER THAN THE VEHICLE, LOSS OF USE, LOSS OF TIME, INCONVENIENCE, OR ANY OTHER ECONOMIC LOSS.

Some states allow neither limitation on the duration of an implied warranty nor exclusions or limitation of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

8. INFORMATION:

For further information contact WARRANTY SERVICES, CLUB CAR, INC., P.O. Box 204658, Augusta, Georgia 30917-4658, U.S.A., 706-863-3000.

9. WARNING:

Any modification or alteration of any vehicle beyond factory specifications, including those that affect the weight distribution, stability, or speed of the vehicle, can cause serious personal injury or death.

CLUB CAR® LIMITED FOUR YEAR WARRANTY FOR 2003 POWERDRIVE® 8-VOLT BATTERIES

CLUB CAR, INC., ("CLUB CAR") hereby warrants to the original retail purchaser that the new PowerDrive 8-volt Battery installed in its new electric vehicle equipped with the PowerDrive System 48™, PowerDrive Plus®, or IQ System™ purchased from CLUB CAR or an authorized distributor or dealer will be free from defects in material and workmanship and will provide 36-hole performance (60 minute discharge capacity) for a period of four years or 800 rounds, whichever first occurs, from the date of purchase subject to the terms and conditions contained herein.

This limited warranty only covers defects in material and workmanship for a period of four years or 800 golf car rounds from date of purchase. The terms of this four-year or 800 round limited warranty shall be as follows:

Vehicles used for golf, free replacement with respect to parts and labor within four years or 800 rounds, whichever first occurs, from date of purchase.

Vehicles used for purposes other than golf, free replacement with respect to parts and labor within four years or 16,000 energy units as recorded by the Onboard Computer, whichever first occurs, from the date of purchase.

The battery should be returned to an authorized CLUB CAR distributor or dealer with evidence of proof of purchase date and number of rounds, freight prepaid. CLUB CAR reserves the right to test and recharge any battery returned for adjustment, and to verify number of rounds played by accessing information contained in the PowerDrive System 48, PowerDrive Plus, or IQ System Onboard Computer.

LIMITED WARRANTY EXCLUSIONS

THE PROVISIONS OF THIS LIMITED WARRANTY SHALL NOT APPLY TO FAILURE DUE TO:

1) Abuse such as overcharging, undercharging, improper fluid levels, loose wiring, or rusted or corroded hardware;

2) Lack of proper maintenance as outlined in the electric vehicle owner's manual;

3) Damages caused by improper installation of the battery;

4) Neglect, breakage, freezing, fire, explosion, wreckage, the addition of any chemical, or the operation of the battery in an uncharged condition (below half charge – 1,200 specific gravity);

5) A battery damaged by a defective charger.

Without limiting the generality of the foregoing in any way, and as part of its limited warranty exclusion, CLUB CAR does not warrant that its PowerDrive battery is suitable for use in any application other than in its products. As in the use of any battery, a prudent owner will read and study the charger owner's manual, the electric vehicle owner's manual, the operator instructions, and the battery warning labels; and will exercise due care in working on or around batteries.

Transportation expenses for warranty services are also excluded from this warranty.

WARRANTY LIMITATIONS

CLUB CAR's liability under this limited warranty shall be to replace a defective battery. Replacement shall be furnishing a new or used battery with sufficient life to complete the remainder of the warranty term, which is identical or reasonably equivalent to the warranted product at no cost to the purchaser during the four-year, 800 round or 16,000 Energy Unit limited warranty period, whichever first occurs. All batteries, which are replaced under this limited warranty, become the property of CLUB CAR.

THIS LIMITED WARRANTY IS EXCLUSIVE. CLUB CAR MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS OR TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY CLUB CAR AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND CLUB CAR EXPRESSLY AGREE THAT THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. CLUB CAR MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND AND NO REPRESENTATIVE, EMPLOYEE, DISTRIBUTOR OR DEALER OF CLUB CAR HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.

This battery is intended to be used by persons with training and experience with batteries and only in CLUB CAR electric vehicles. Any other use renders the Limited Warranties expressed herein and all implied warranties null and void and same are hereby excluded.

ALSO EXCLUDED FROM THIS LIMITED WARRANTY ARE ANY AND ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF USE OR REVENUE, LOSS OF TIME, INCONVENIENCE OR ANY OTHER ECONOMIC LOSS.

Damage not resulting from a defect in material or workmanship or that occurs due to abuse or neglect (including failure to provide reasonable and necessary maintenance), accident or alteration is excluded from this limited warranty.

Some states allow neither limitation on the duration of an implied warranty nor exclusions or limitations of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

For further information contact WARRANTY SERVICES, CLUB CAR, INC., P.O. Box 204658, Augusta, Georgia, 30917-4658, U.S.A., 706-863-3000.

CLUB CAR® LIMITED FOUR YEAR WARRANTY FOR 2003 POWERDRIVE® BATTERY CHARGERS

CLUB CAR, INC., ("CLUB CAR") hereby warrants to the original retail purchaser that its new PowerDrive Chargers purchased from CLUB CAR or an authorized distributor or dealer will be free from defects in material and workmanship under normal use and service for a period of four years from the date of purchase, subject to the terms, provisions, limitations, and exclusions contained herein.

The limited warranty with respect to parts and labor only covers defects in material and workmanship for a period of four years from the date of purchase. Such repair labor shall be performed only by CLUB CAR or by an authorized distributor or dealer. Purchaser shall be responsible for all freight costs to and from CLUB CAR's facility.

LIMITED WARRANTY EXCLUSIONS

THE PROVISIONS OF THIS LIMITED WARRANTY SHALL NOT APPLY TO FAILURE DUE TO:

1) Lack of normal maintenance services such as preventive maintenance checks and tightening loose wire connections;

2) Semiconductor parts such as diodes and fuses which are vulnerable to electrical overloads (including lightning) beyond the control of CLUB CAR;

3) Charger DC cord set with plug, which is a wear item and subject to user abuse.

Any warranty service, which includes labor during the first year, must be performed by CLUB CAR or by an authorized distributor or dealer. For repairs made by qualified technicians other than CLUB CAR's factory technicians or an authorized distributor or dealer, CLUB CAR will provide only the replacement parts or components.

PowerDrive Chargers are intended to be used by persons with knowledge of the chargers and proper charging practices and only on CLUB CAR PowerDrive System 48™, PowerDrive Plus®, or IQ System™ vehicles. Any other use renders the Limited Warranties expressed herein and any implied warranties null and void and same are hereby excluded.

Without limiting the generality of the foregoing in any way, and as part of its limited warranty exclusion, CLUB CAR does not warrant that the PowerDrive Charger is suitable for use in any application other than its PowerDrive System 48, PowerDrive Plus, or IQ System products. As in the use of any electrical device, a prudent owner will read and study the charger owner's manual, the electric vehicle owner's manual, the operator instructions, and the battery warning labels; and will exercise due care in working on or around electrical devices.

Transportation expenses for warranty services are also excluded from this warranty.

WARRANTY LIMITATIONS

CLUB CAR's liability under this limited warranty, or in any action whether based upon warranty, contract, negligence, strict product liability or otherwise, shall be the replacement or repair of a charger or component thereof that CLUB CAR deems to be defective. Replacement shall mean furnishing, during the applicable limited warranty period, a new charger or component thereof that is identical or reasonably equivalent to the warranted product or defective component at no cost to the purchaser. Repair shall mean remedying a defect in the charger or component thereof at no cost to the purchaser during the applicable limited warranty period. If CLUB CAR elects to repair the charger, it may provide factory-reconditioned parts or components. All parts and components replaced under warranty shall become the property of CLUB CAR.

THIS LIMITED WARRANTY IS EXCLUSIVE. CLUB CAR MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS OR TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY CLUB CAR AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND CLUB CAR EXPRESSLY AGREE THAT THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. CLUB CAR MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND AND NO REPRESENTATIVE, EMPLOYEE, DISTRIBUTOR OR DEALER OF CLUB CAR HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.

IN NO EVENT SHALL CLUB CAR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS RELATED TO PROPERTY OTHER THAN THE BATTERY CHARGER, LOSS OF USE, LOSS OF TIME, INCONVENIENCE, OR ANY OTHER ECONOMIC LOSS.

Damage not resulting from a defect that occurs due to unreasonable use, abuse or neglect (including failure to provide reasonable or necessary maintenance), accident or alteration is excluded from the limited warranty.

Some states allow neither limitation on the duration of an implied warranty nor exclusions or limitations of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

For further information contact WARRANTY SERVICES, CLUB CAR, INC., P.O. Box 204658, Augusta, Georgia 30917-4658, U.S.A., 706-863-3000.

CLUB CAR® LIMITED FOUR YEAR WARRANTY FOR 2003 ONBOARD COMPUTERS AND SOLID STATE SPEED CONTROLLERS

CLUB CAR, INC., ("CLUB CAR") hereby warrants to the original retail purchaser that the new Onboard Computer and the Solid State Speed Controller, hereinafter called "Computer" and "Controller" respectively, installed in its new electric vehicle equipped with the PowerDrive® System 48™, PowerDrive Plus®, or IQ System™ purchased from CLUB CAR or an authorized distributor or dealer will be free from defects in material and workmanship for a period of four years or 800 rounds, whichever first occurs, from the date of purchase subject to the terms and conditions contained herein.

This limited warranty only covers defects in material and workmanship for a period of four years or 800 golf car rounds from date of purchase. The terms of this four-year or 800 round limited warranty shall be as follows:

Vehicles used for golf, free replacement with respect to parts and labor within four years or 800 rounds, whichever first occurs, from date of purchase.

Vehicles used for purposes other than golf, free replacement with respect to parts and labor within four years or 16,000 energy units as recorded by the Computer, whichever first occurs, from date of purchase.

The Computer or Controller should be returned to an authorized CLUB CAR distributor or dealer with evidence of proof of purchase date and number of rounds, freight prepaid. CLUB CAR reserves the right to test any Computer returned for warranty and to verify number of rounds played by accessing information contained in the Computer.

LIMITED WARRANTY EXCLUSIONS

THE PROVISIONS OF THIS LIMITED WARRANTY SHALL NOT APPLY TO FAILURE DUE TO:

1) Abuse or neglect, such as improper battery fluid levels, loose wiring, or rusted or corroded hardware;

2) Lack of proper maintenance as outlined in the electric vehicle owner's manual;

3) Damages caused by improper installation of the Computer or Controller;

4) Vehicles charged by systems other than the CLUB CAR PowerDrive Charger.

Without limiting the generality of the foregoing in any way, and as part of its limited warranty exclusion, CLUB CAR does not warrant that the Computer or Controller is suitable for use in any application other than its PowerDrive System 48, PowerDrive Plus, and IQ System products. As in the use of any battery operated device, a prudent owner will read and study the charger owner's manual, the electric vehicle owner's manual, the operator instructions, and the battery warning labels; and will exercise due care in working on or around batteries.

Transportation expenses for warranty services are also excluded from this warranty.

WARRANTY LIMITATIONS:

CLUB CAR's liability under this limited warranty shall be to replace a defective Computer or Controller. Replacement shall be furnishing a new or reconditioned Computer or Controller, which is identical or reasonably equivalent to the warranted product at no cost to the purchaser during the four-year or 800 round limited warranty period for golf use or 4 years or 16,000 energy units for use other than golf, whichever first occurs, except for transportation expenses. All parts and components replaced under this limited warranty become the property of CLUB CAR.

THIS LIMITED WARRANTY IS EXCLUSIVE. CLUB CAR MAKES NO OTHER WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED. ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEED THE OBLIGATIONS OR TIME LIMITS STATED IN THIS WARRANTY ARE HEREBY DISCLAIMED BY CLUB CAR AND EXCLUDED FROM THIS WARRANTY. THE PURCHASER AND CLUB CAR EXPRESSLY AGREE THAT THE REPLACEMENT OR REPAIR OF THE DEFECTIVE VEHICLE OR COMPONENT THEREOF IS THE SOLE REMEDY OF THE PURCHASER. CLUB CAR MAKES NO OTHER REPRESENTATION OR WARRANTY OF ANY KIND AND NO REPRESENTATIVE, EMPLOYEE, DISTRIBUTOR OR DEALER OF CLUB CAR HAS THE AUTHORITY TO MAKE OR IMPLY ANY REPRESENTATION, PROMISE OR AGREEMENT, WHICH IN ANY WAY VARIES THE TERMS OF THIS WARRANTY.

This computer or controller is intended to be used only in CLUB CAR PowerDrive System 48, PowerDrive Plus, and IQ System electric vehicles. Any other use renders the Limited Warranties expressed herein and all implied warranties null and void and same are hereby excluded.

ALSO EXCLUDED FROM THIS LIMITED WARRANTY ARE ANY AND ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING, BUT NOT LIMITED TO, LOSS OF USE OR REVENUE, LOSS OF TIME, INCONVENIENCE OR ANY OTHER ECONOMIC LOSS.

Damage not resulting from a defect in material or workmanship or that occurs due to abuse or neglect (including failure to provide reasonable and necessary maintenance), accident or alteration is excluded from this limited warranty.

Some states allow neither limitation on the duration of an implied warranty nor exclusions or limitations of incidental or consequential damages. Therefore, the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

For further information contact WARRANTY SERVICES, CLUB CAR, INC., P.O. Box 204658, Augusta, Georgia, 30917-4658, U.S.A., 706-863-3000.

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- ☐ Other: _____
- ☐ Technician
- ☐ Golf Course Superintendent

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	Poor	Fair	Average	Good	Excellent
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2. Ease of Finding Information	☐	☐	☐	☐	☐
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Thank You!
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